

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

## SEP 2 1 2015

## CERTIFIED MAIL 7009 1680 0000 7669 3455 RETURN RECEIPT REQUESTED

REPLY TO THE ATTENTION OF:

Mr. Richard Daff Plant Manager ASK Chemicals, LP 2191 West 110<sup>th</sup> Street Cleveland, Ohio 44102

Re: Notice of Violation

Compliance Evaluation Inspection EPA RCRA ID: OHD076751320

Dear Mr. Daff:

On July 14-15, 2015, representatives of the U.S. Environmental Protection Agency and Ohio Environmental Protection Agency inspected the ASK Chemicals ("ASK") facility located in Cleveland, Ohio. As a large quantity generator of hazardous waste, ASK is subject to the Resource Conservation and Recovery Act, 42 U.S.C. § 6901 et seq. (RCRA). The purpose of the inspection was to evaluate ASK's compliance with certain provisions of RCRA and its implementing regulations related to the generation, treatment and storage of hazardous waste. A copy of the inspection report is enclosed for your reference.

Based on information provided by ASK, on EPA's review of records pertaining to ASK, and on the inspector's observations, EPA has determined that ASK unlawfully stored hazardous waste without a permit or interim status due to the failure to comply with certain conditions for a permit exemption under Ohio Admin. Code § 3745-52-34(A)-(C) [40 C.F.R. § 262.34(a)-(c)]. EPA has identified the permit exemption conditions with which ASK was out of compliance at the time of the inspection in paragraphs 1 – 2, below.

Many of the conditions for a RCRA permit exemption are also independent requirements such as those which apply to permitted and interim status hazardous waste management facilities that treat, store, or dispose of hazardous waste (TSD requirements), and those which apply to all facilities such as land disposal restrictions (LDR requirements). When a hazardous waste generator loses its permit exemption due to a failure to comply with an exemption condition incorporated from Ohio Admin. Code chs. 3745-65 to 68, 3745-256, or 3745-270, the generator: (a) becomes an operator of a hazardous waste storage facility; and (b) simultaneously violates the corresponding TSD or LDR requirement. The exemption conditions identified in paragraphs 3-6, below, are also independent TSD or LDR requirements. Accordingly, each failure of ASK to comply with these conditions is also a violation of the corresponding LDR requirement in Ohio Admin. Code 3745-270 [40 C.F.R. Part 268] or TSD requirement in Ohio Admin. Code chs.

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3745-65 to 68 or 3745-256 [40 C.F.R. Part 265] (if the facility should have fully complied with the requirements for interim status), or Ohio Admin. Code chs. 3745-54 to 57 and 3745-205 [40 C.F.R. Part 264] (if the facility should have been permitted).

Lastly, EPA has also determined that ASK violated RCRA requirements related to universal waste, as described in paragraph 7, below.

# STORAGE OF HAZARDOUS WASTE WITHOUT A PERMIT OR INTERIM STATUS AND VIOLATIONS OF TSD OR LDR REQUIREMENTS

At the time of the inspection, ASK was out of compliance with the following large quantity generator permit exemption conditions:

## 1. Date When Each Period of Accumulation Begins

Under Ohio Admin. Code § 3745-52-34(A)(2) [40 C.F.R. § 262.34(a)(2)], a large quantity generator must clearly mark each container holding hazardous waste with the date upon which each period of accumulation begins.

At the time of the inspection, ASK maintained one 55-gallon drum outside of the QC Lab that was not marked with the date upon which each period of accumulation of hazardous waste began.

#### 2. Failure to Label Satellite Containers

Under Ohio Admin. Code § 3745-52-34(C)(1)(b) [40 C.F.R. § 262.34(c)(1)(ii)], a large quantity generator who accumulates hazardous waste in a satellite container must mark his container either with the words "Hazardous Waste" or with other words that identify the contents of the containers.

At the time of the inspection, containers of hazardous waste were located in a hood in the Reactor In-Process Lab located in Building 12. One 2-gallon container of waste in this hood was not labeled or marked as above.

The permit exemption conditions identified below in paragraphs 3-6 are also independent TSD or LDR requirements violated by ASK:

## 3. Use and Management of Containers

Under Ohio Admin. Code §§ 3745-52-34(A)(1)(i) and 3745-66-74, a large quantity generator must inspect areas where containers are stored, at least once during the period from Sunday to Saturday, looking for leaks and for deterioration caused by corrosion or other factors. The owner or operator must record inspections in an inspection log or summary. Please note, EPA does not have an analogous regulation.

At the time of the inspection, an employee of ASK was conducting inspections in the 90-day waste storage area located in Building 10. These inspections were not consistently conducted once during the period from Sunday to Saturday. See the following gaps in the record:

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1/8/14 - 1/21/14;

1/30/14 - 2/19/14;

2/26/14 - 3/20/14;

5/29/14 - 6/11/14;

9/26/14 - 10/7/14;

10/17/14 - 10/30/14 - 11/11/14;

11/19/14 - 12/11/14;

1/30/15 - 2/12/15;

4/8/15 - 4/21/15; and,

5/9/15 - 5/20/15.
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In addition, weekly inspections were not being conducted for the drum that is stored outside of the QC Lab in Building 2. ASK was managing this drum as a satellite accumulation container. This drum was neither at nor near the point of generation. Also, waste accumulates in a 2-gallon satellite container in the QC Lab before it is transferred to this 55-gallon drum. Generators may not transfer wastes from one satellite accumulation container to another.

## 4. Maintenance and Operation of Facility

Under Ohio Admin. Code §§ 3745-52-34(A)(4); 3745-65-31 [40 C.F.R. §§ 262.34(a)(4); 265.31], facilities must be maintained and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

At the time of the inspection, a small pool of spilled material on the facility floor appeared to have been generated from a surficial crack in a product storage tank (Tank 32) or from piping associated with that tank. This spilled material could not be reused at the site and was described during the inspection as a phenolic resin that may have contained chemicals such as formaldehyde, phenol, and methanol.

#### 5. Contingency Plan

Under Ohio Admin. Code §§ 3745-52-34(A)(4); 3745-65-52(C) [40 C.F.R. §§ 262.34(a)(4); 265.52(c)]. The contingency plan must describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and state and local emergency response teams to coordinate emergency services.

At the time of the inspection, the facility contingency plan did not contain descriptions of the arrangements that have been made with the above authorities.

## 6. Land Disposal Restrictions (LDR)

Under Ohio Admin. Code §§ 3745-52-34(A)(4); 3745-270-07(A)(2) [40 C.F.R. §§ 262.34(a)(4); 268.7(a)(2)], a generator of hazardous waste which does not meet the treatment standards, and who sends the waste off-site for treatment, must send a one-time written notice to each treatment or storage facility receiving the waste. The notice must include, among other things, the following information:

- Underlying hazardous constituents (UHCs) in characteristic wastes, unless the waste will be treated and monitored for all constituents. If all constituents will be treated and monitored, there is no need to put them all on the LDR notice; and
- Applicable wastewater/non-wastewater category.

LDR notices reviewed during the inspection did not appear to address potential UHCs. The areas designated for UHCs were left blank. Also, on some of the LDR notices reviewed, wastewater/non-wastewater category designations had not been made.

Summary of permit exemption conditions: By failing to comply with the conditions for a permit exemption, above, ASK became an operator of a hazardous waste storage facility, and was required to obtain an Ohio hazardous waste storage permit. ASK failed to apply for such a permit. ASK's failure to apply for and obtain a hazardous waste storage permit violated the requirements of Ohio Admin. Code §§ 3745-50-45(A) and 3745-50-41(A) and (D) [40 C.F.R. §§ 270.1(c), and 270.10(a) and (d)]. Any failure to comply with a permit exemption condition incorporated from Ohio Admin. Code chs. 3745-65 to 68, 3745-256, and 3745-270 [40 C.F.R. Parts 265 and 268] is also an independent violation of the corresponding TSD or LDR requirement.

#### Universal Waste Violations

## 7. Universal Waste Requirement

Under Ohio Admin. Code § 3745-273-34(E) [40 C.F.R. § 279.15(a) and (b)], a small quantity handler of universal waste may accumulate universal waste for no longer than one year from the date the universal waste is generated unless the generator proves that such activity is for the sole purpose of accumulating such quantities of universal waste as necessary to facility proper recovery, treatment, or disposal.

At the time of the inspection, according to bills of lading, batteries were last shipped offsite on 3/5/14, more than one year prior to the inspection. The generator did not provide documentation showing that the extended accumulation was necessary.

#### CONCLUSION

At this time, EPA is not requiring ASK to apply for an Ohio hazardous waste storage permit so long as it immediately establishes compliance with the conditions for a permit exemption outlined in paragraphs 1-6, above.

According to Section 3008(a) of RCRA, EPA may issue an order assessing a civil penalty for any past or current violation, requiring compliance immediately or within a specified time period, or both. Although this letter is not such an order or a request for information under Section 3007 of RCRA, 42 U.S.C. § 6927, we request that you submit a response in writing to us no later than 30 days after receipt of this letter documenting the actions, if any, which you have taken since the inspection to establish compliance with all seven (7) of the above permit exemption conditions and additional requirements. You should submit your response to Brenda Whitney, U.S. EPA, Region 5, 77 West Jackson Boulevard, LR-8J, Chicago, Illinois 60604.

If you have any questions regarding this letter, please contact Ms. Whitney, of my staff, at 312-353-4796 or at whitney.brenda@epa.gov.

Sincerely,

Gary V. Victorine, Chief

RCRA Branch

Enclosure

cc: Robert Almquist – OEPA (Robert.Almquist@epa.ohio.gov

Teri Finfrock - OEPA (Teri.Finfrock@epa.ohio.gov)

## United States Environmental Protection Agency Region 5

# 77 WEST JACKSON BOULEVARD CHICAGO, ILLINOIS 60604

## **Compliance Evaluation Inspection Report**

Date of Inspection:

July 14-15, 2015

Facility Name:

ASK Chemicals, LP

**Facility Address:** 

2191 West 110<sup>th</sup> Street Cleveland, Ohio 44102

**EPA RCRA ID Number:** 

OHD076751320

**Generator Status:** 

Large Quantity Generator

**Facility Contact:** 

Rich Daff - Plant Manager

U.S. EPA RCRA Inspector:

Brenda Whitney - Environmental Engineer

Land and Chemicals Division

Resource Conservation and Recovery Act (RCRA) Branch

Compliance Section 2

Ohio EPA Inspector:

Richard Almquist - Hazardous Waste Specialist

Division of Hazardous Waste Management

Northeast District Office

Prepared By:

Brenda Whitney

**Environmental Engineer** 

**Date Completed:** 

90/04/200

Month / Day / Year

Approved By:

Juli Morris

Chief, Compliance Section 2

Date Approved:

Month / Day / Year

## **Purpose of Inspection**

I conducted an unannounced Compliance Evaluation Inspection (CEI) of ASK Chemicals, LP ("ASK" or "Facility") located in Cleveland, Ohio, on July 14-15, 2015. This CEI was an evaluation of ASK's compliance with the RCRA hazardous waste regulations codified in the Ohio Administrative Code and the Code of Federal Regulations. ASK had notified as a large quantity generator. Robert Almquist, a hazardous waste inspector with the Ohio Environmental Protection Agency (OEPA) accompanied me on this inspection.

## **Participants**

The following people were present for part or all of this inspection:

Rich Daff Plant Manager	ASK
Steven E. Henson  Manager of Operational Safety, Environment, and Compliance, Americas	ASK
Randy Helmick Senior Vice President Americas Manufacturing	ASK
Robert Almquist Hazardous Waste Specialist	ОЕРА
Brenda Whitney Environmental Engineer	EPA

#### Introduction

Upon arrival at ASK at 8:20 a.m., Mr. Almquist and I signed in at the front desk while Mr. Daff was contacted. Mr. Daff met us at the front entrance and led us to his office for an introductory meeting. We displayed official identification and exchanged business cards. Mr. Daff went through evacuation procedures and explained what safety equipment would be required for access to the site. I delineated the purpose and logistics of the CEI to the ASK representatives, and we discussed ASK's hazardous waste generation sources and management methods. I informed the ASK representatives that I would be taking photographs during the CEI as needed. I provided the following compliance assistance documents; *Onsite Pollution Prevention Assistance (OEPA brochure)*; *P2 Technical Assistance Contacts; and U.S. EPA Small Business Resources.* After being given an overview of the processes and waste generation sources at the Facility we were escorted on a walking tour of the Facility before returning to the conference room to review records. The review was completed July 15, 2015, at which time I held a closing conference with ASK representatives.

## Site Description

The following information about ASK is based on the personal observations of the EPA inspector and on representations made during the inspection by the Facility personnel identified above or within the text unless otherwise noted.

ASK is located on seven acres of property and has been in operation at this site since late 2011 or early 2012. Historically, the facility was owned by Archer Daniels Midland in the 1960s. Ashland Chemicals purchased the site in 1966. Ashland Chemicals, along with German partners, formed ASK Chemicals to take over the foundry-chemistry portion of Ashland Chemicals' business. ASK is now owned by a private investment company. Three ASK facilities in North America serve the foundry customer base: Cleveland East, Cleveland West (this facility), and New York. Globally, there are approximately twenty ASK facilities.

Most of the employees at ASK are former Ashland Chemicals employees. Currently 31 employees work in the plant and 24 are managerial. The employees are part of a union. They work three shifts Monday through Friday beginning Sunday night at 11pm and finishing at 11pm Friday night.

As mentioned above, ASK manufactures chemicals that are used in the foundry industry. The main chemical produced here is phenolic resin, which, in part is used to stabilize foundry molds. The phenolic resin ("Part 1") is comprised basically of phenol, paraformaldehyde, and solvents, the main solvent being methanol. The phenol is brought in on rail cars as a solid. The tanker car is heated to over 104F using steam hoses at the site in order to liquefy the phenol, which is off-loaded into tanks 201 and 202. The paraformaldehyde comes in granular solids by rail car and is off-loaded into silo 130. Methanol is brought to the site in tanker trucks and off-loaded into tank 138.

Part 1 is manufactured in Building 12 in two 6,500-gallon reactors (Tanks 301 and 302), constructed in 1989. These reactors have temperature control jackets on the outside as well as coils inside the tanks. The reaction is exothermic, meaning it generates heat. The ingredients used are mainly phenol, paraformaldehyde, and methanol. A catalyst is also required. Once the components are loaded into the reactor, heat is added up to 250F. The heat generated from the exothermic reactions taken place are controlled in part by the evaporation of water into a condenser. The condensed cooler water is returned back to the reactor until the reaction is completed. At the point of completion, all of the water is allowed to boil off of the finished product and the condensate is routed to a receiver tank. This material, called "distillate," contains measurable amounts of each chemical in the formulation including methanol, making it an ignitable hazardous waste. From the receivers the waste is hard-piped to a storage tank, 204. From this tank, the distillate is pumped to a distillation column to recover the methanol from the stream. The methanol is reused as a raw material at the site. The methanol-depleted column bottoms are hard-piped to another storage tank, 107, prior to being piped to the boiler system to be burned for energy recovery. The bottoms still contain phenol and formaldehyde.

Most Part 1 base resins created in either reactor 301 or 302 are piped over to tanks 41, 42, and 43 for storage. One brand of resin called "Novaset" or "Novacure" is pumped separately to tanks

209 and 213 because it does not require any additional solvents or additives. Non-Novaset resins, however, are piped to tanks 55, 56, and 57 where the resin is cold-mixed with various additional solvents and additives to make the customer-specific final product. ASK manufactures hundreds of different products. The finished products are stored in eleven tanks; 31-33, 35, 39, 51-54, 127 and 128. When shipping the finished products off-site, they may use totes, trucks, drums, and occasionally 5-gallon buckets (for samples).

The resin requires a second component ("Part 2") to be mixed with it when coating the sand. This material is also manufactured at this site. Part 2 is an isocyanate consisting of diphenylmethane diisocyanate or "MDI" and various solvents. The MDI is brought to the site either by rail or in tanker trucks and is off-loaded into tanks 151, 152, and 153.

The former reactor building for Part 1 is now part of the current building for manufacturing Part 2, which is the newest building constructed in 1999. The Part 2 process is a cold-blending operation in tanks 222 and 223 mixing MDI with solvents and additives. The tanks are protected with a nitrogen atmosphere because the mixtures are reactive with water. These particular tanks are not cleaned out because the product lines are the same. When finished, a sample is checked at the lab, and the Part 2 product is stored in tanks 47, 88, 89, 94, 95, and 96. The products are sent off-site in tanker trucks, totes, or 55-gallon drums.

When using Part 1 (non-Novaset) and Part 2 to coat the sand, the foundry must also apply a catalyst in order for the resin to react and harden. The catalyst can be chemical amine-based, or it can be heat-based. The amine-based catalyst is used in an "Isocure" process. The amines are brought to this facility either in bulk tanker trucks or in drums. The drums are transshipped to the customers as is. The bulk liquid is offloaded into tanks 137, 139, and 140 and is partitioned into 110-gallon vessels to be distributed to the foundry customer. The vessels have two vents. The first vent is for loading the amines into the cylinder. The second vent is connected to an acidic scrubber system. Wastes generated from the amines have been determined to be non-hazardous.

Another catalyst manufactured at the facility is called "Pep-Set." One blend tank is used for this catalyst. All waste generated from the manufacture of this material is considered hazardous. Clean-outs and samples taken from this tank generate an ignitable hazardous waste.

At a foundry, after coating the sand for the molds with Parts 1 and 2 and forming the shape of the mold for the cast, the amines are diffused as a gas into the mold hardening it immediately. According to Mr. Daff, when the foundry pours the molten metal into molds that have been made with ASK-formulated chemicals, the heat from the molten metal breaks the chemical bonds in the mold, so that the sand can be shaken off, rather than broken off, after the cast has cooled.

The following wastes are typically generated at the ASK facility:

- Lab Waste The QC laboratory generates a solvent waste, which it manages as hazardous.
- Canister Filter Bags Canister filters are used to filter product when it is removed from a reactor or blend tank. Most of the bags in the filters have been determined to be non-hazardous. Novaset resins are run through dedicated filters because they generate a corrosive (basic) hazardous waste.

- **Pep-Set Catalyst** Wastes related to the manufacture of this material have been determined to be hazardous for ignitability.
- **Distillation Column Bottoms** This waste stream containing phenol and formaldehyde is burned on-site in a boiler.
- Expired Chemicals Expired chemicals are managed as hazardous wastes if they carry a characteristic or U-listed code.
- Waste Product Includes batches that have hardened or for whatever reason cannot meet specifications and cannot be re-worked. These batches may be ignitable or corrosive and carry U-listings for phenol and/or formaldehyde.
- Wastewater Wastewater is generated in Building 12. When resin builds up on the temperature control coils in the reactors, a caustic boil is used to clean them off. The water is neutralized with acid prior to being discharged to a 3-section wastewater pit in the building. The water is then routed through a carbon unit to remove phenol from the stream to under 50ppm. They do not treat for formaldehyde. The treated water is stored in tank 807 and as sampled daily for pH and phenol prior to discharge. The cooling tower on-site is cleaned/descaled annually. This water is also processed through the pit. Certain units on-site are water-blasted annually for maintenance. This wastewater is also processed in the pit. All of these process wastewaters are discharged through "Discharge Point 1." Tank farm water and site water collect in blind sumps around the facility. This water is tested daily prior to being mixed with stormwater. These combined wastewaters are discharged through "Discharge Point 2."
- Used Oil Generated from fork-lift maintenance. Compressors maintenance is outsourced.
- Universal Waste The facility collects used lamps and batteries for recycling.
- **Product Returns** ASK accepts product returns from customers under the condition that the material has near 100% chance to be reformulated at the site. The containers of returns are held as a commercial chemical product in a "quarantine area" until the Quality Control (QC) lab can assess the re-workability of the material. If the material cannot be reused, a waste determination is made at that point.

## Site Tour

QC Lab (Building 2): Pat Towsley, the Supervisor in this Lab, discussed waste generation in this area. Most of the tests done in the Lab do not generate waste, as the materials are consumed during the tests. Hazardous waste is generated from titrations using chemicals including toluene. Other chemicals used include methanol and isopropanol. The wastes accumulate in a 2-gallon flame-resistant can with a spring operated closing mechanism. This container was closed and labeled as "Solvent Waste." According to Mr. Towsley, this container fills in approximately two or three days. This waste is emptied into a 55-gallon drum located in an area behind the lab, though still inside Building 2 (See, Appendix A: Photograph 1). The container was labeled as "Hazardous Waste," and marked with the waste codes D001, D038 (pyridine) and F005. The container was not marked with a start date of accumulation. ASK was managing this container according to satellite accumulation requirements.

Old Warehouse (Building 2): Part 1 and Part 2 finished product drum storage is located on the north wall of this building. Drums with white tops contain Part 1; drums with red tops contain Part 2. The Pep-Set catalyst reactor was located near the QC Lab. This catalyst is not used in the Isocure process. The ingredients in Pep-Set are cold blended. 5-gallon buckets are used to catch samples out of the reactor. This material is put back into the batch. One 55-gallon drum next to the reactor was labeled as "Hazardous Waste" and marked with the D001 waste number and description of "Aromatic petroleum-naptha."

Near another tank, which number I did not denote (39?), was another 55-gallon drum labeled as "Hazardous Waste," and marked with the D002 waste number and description "Novaset Filters." This drum had an orange lid. Mr. Daff stated that containers for different waste streams at the facility were identified by the color of the drum lid to help prevent accidental mixing of incompatible materials.

Moving eastward, we observed the drum-filling line (which was not operating at that time). East of the line, were three tanks 31, 32, and 33. These tanks hold finished Part 1 product. Mr. Almquist noted a pool of spilled material near tanks 32 and 33, which appeared to have originated from piping associated with those tanks and from a surficial crack observed in the body of tank 32 (See, Appendix A: Photographs 2 and 3). Mr. Daff stated that Novaset product is never held in any of these tanks.

Near these tanks was a 55-gallon drum labeled as "Hazardous Waste" and marked with the D001 waste number and the description of "Aerosol Cans." ASK does not use a canpuncturing mechanism to release any remaining residual in the can, but discards the entire can.

- New Warehouse (Building 3): This warehouse is attached to the east side of Building 2, and houses containers of finished products as well as tanks for storing ethyldimethylamine, which is the amine catalyst that they buy in bulk and transfer into 110-gallon vessels. No hazardous waste was observed in this area.
- HF Storage (Building 8): This room is used strictly for storage of HF acid. I did not tour this building.
- Tote Fill Area for Part 1 (No Building Designation): This area runs along the north side of Building 2, and used to be an outdoor area that has since been covered and enclosed. The quarantine area for returns was located here near a loading dock. The containers were cordoned off with chains and appeared to be in good condition.
- Tank Wagon Loading Area (Outdoors): Located at the center of the west side of the facility. The sumps in the area, and throughout the facility, are connected to a system that discharges through "Discharge Point 2" at the rear of the facility. The sumps are emptied into that system manually after testing.
- Core Oil Room (Building 6): This room was designated for the manufacture of core oil, an obsolete material, in the 1960s. Part 2 finished product is stored in this room in tanks 215

- and 216. Finished furan products are blended in this room as well. Tanks 219 and 220 used to hold resin products and are now empty and no longer used. Tank 221 holds a coreactant for the Novaset product. It is a catalyst for that technology. No waste was observed in this room.
- Boiler House (Building 4): Located just west of Building 6, we observed a portion of the inside of this room from the outside only. We did not enter the building.
- Part 2 Blending (Building 5): Two tanks (222 and 223) in this building are dedicated for the Isocure Part 2 resin and Pep-Set Part 2 resin. Both tanks are blanketed with nitrogen. No waste was observed in this Building.
- New Tank Farm: Twelve new product tanks are being installed on the property to the east of Building 5. Six of these tanks are already in service. The other six are still being installed. Mr. Almquist checked the secondary containment to see if any material were building up. He noted that there did not appear to be any accumulation.
- Scale House (Building 7): This building, formerly located on the central east side of the facility, has been razed, though it still is on the map that I was provided. Hazardous waste was never stored in this building.
- Hot Room (No building designation): In between former Building 7 and Building 5 was a small stand-alone building with a garage door. This building is not on the map that was provided to me. Chemicals in 55-gallon drums in the room are kept heated until they are needed in the process.
- Part 2 Filling (Building 11): This building, also known as the Celestrol building, is used for filling drums and totes with Part 2. No hazardous waste was observed in this Building.
- Old Tank Farm: To the east of Building 11 is the existing tank farm for storing product. Mr. Almquist checked the secondary containment for material buildup, and noted that there was a small amount of build-up. Just west of the tank farm, on the outside east wall of, I believe, Building 11, Mr. Almquist asked Mr. Daff about 8 drums that were staged in that area (See Appendix A: Picture 4). According to Mr. Daff (at this time and confirmed later in the inspection), the material in these drums was an off-specification Pep-Set catalyst that was going to be reworked at a rate of 10% into new batches of the same material. The label stated that the batch was created on 11/18/2014. Mr. Almquist mentioned speculative accumulation to Mr. Daff.
- East side of Buildings 9 and 15: Mr. Almquist asked about two 275-gallon totes that were labeled as "Premix Distillate." Mr. Daff stated that the condensate collected after the resin blending process is processed through a distillation unit to remove methanol, which is directly reused in the process. The material in the totes, he said and later confirmed, was had been run through the distillation column to remove the methanol and was not ignitable. However, rather than route these column bottoms to the boiler, this material was to be re-distilled to see if phenol could be removed from the waste stream as well.

- Flammable Drum Storage (Building TB-3): Product drums of flammable materials are stored outside near the flammable tank farm. No hazardous waste was observed in this area.
- Paraformaldehyde storage (Building 9): Super sacks of paraformaldehyde prill were stored in this building. These sacks will eventually be emptied into the main storage silo.
- Waste Storage Area (Building 10): Hazardous and non-hazardous wastes are stored in a fenced, diked area in this building. Only one hazardous waste drum was in storage at the time. The drum was labeled as "Hazardous Waste," and as "D001 Aromatic Petroleum Naptha), was closed, and was marked with a start date of accumulation from 6/24/15. A spill kit, emergency phone, pull station fire alarm, dry chemical sprinkler, and fire extinguisher were all in the immediate area. Mr. Almquist checked the phone and gauge on the fire extinguisher to see if they appeared to be in working order. I inquired about whether they have investigated potential incompatibilities in their wastes. I noticed that they generate corrosive and ignitable wastes. They separate the hazardous and non-hazardous wastes with a concrete curb, but the ignitable and corrosive wastes are stored side by side.
- Maintenance (No building designation): The maintenance building is located at the far northwest corner of the facility. We observed two drums of waste in the general maintenance area. The first 55-gallon drum held aerosol cans, was closed, labeled as "Hazardous Waste," and marked with the D001 hazardous waste number. The second drum held used oil and was labeled as such. No other wastes were observed in the area.
- Part 1 Reactor Building (Building 12): This building houses the Part 1 reactors as well as the process wastewater pits. We observed the three-part tank that is use to collect the water and drop some solids before the water is filtered through the carbon unit to lower the phenol content below 50ppm. Solids that are cleaned out of the tank are managed as non-hazardous waste. The filtered water is stored in tank 807 until a sample result shows that the water can be discharged through Discharge Point 1.

We walked to the top of the reactors. Tanks 301 and 302 are side by side. A batch was in process at the time of the inspection and through a spy glass in one of the tanks, we could see the resin boiling. We observed the 30-inch vent stack that is in place in the event of a runaway reaction. The vent leads to an emergency collection tank. We observed the condensers and the general area of the cooling tower. The condensers were feeding the cooled water back into the reactors. We also observed the receiving tanks for the "distillate" that was to be distilled to remove methanol. These tanks would start filling when the reaction was nearing completion. Approximately 8,000 pounds of distillate is generated per batch. A scrubber system in the area generates a spent solution that is processed through the wastewater system.

The Reactor in-process lab is next to the control room in this building, but it did not appear to be regularly used. Three containers of waste were located in a hood in this lab (See, Appendix A: Photograph 5). A 2-gallon container of waste was closed but not labeled. Two one-gallon containers were closed and labeled as "Lab Solvent Waste."

On the ground floor at the base of the reactors we observed four 55-gallon drums used to collect used canister filters from the reactors. One drum is dedicated for the Novaset process and was labeled as "Hazardous Waste" and "Novaset Filters," as well as with the D002 waste number.

As we walked out of Reactor Building 12, we observed a 330-gallon tote of the Premix Distillate. Mr. Daff reiterated that this material would be re-run through the column to see if it were feasible to remove phenol from the stream as well.

Universal Waste Storage: Located in a closet in the main office building. I observed 2 closed boxes of "Universal Waste Lamps." In addition, four 5-gallon buckets of lead-acid batteries were in this closet. These containers were labeled as "Universal Waste Batteries." The lamps were marked with start dates of accumulation from 9-1-14 and 5-1-15. I did not observe dates on the containers of batteries.

## Records and Emergency Preparedness Review

Preparedness and Prevention: The Facility is equipped with internal communications and alarm systems. Phones are available for external communications to summon emergency assistance. In addition to a plant-wide fire suppression system, portable fire extinguishers and spill control equipment are located throughout the Facility and near the 90-day hazardous waste storage area. The chemical fire suppression system has a diesel back-up engine. Emergency equipment is tested and maintained according to a schedule. Aisle space appeared adequate. Arrangements with local emergency responders have been made.

Contingency Plan: The contingency plan is part of the site SPCC plan. A list of Emergency Incident Commanders (emergency coordinators) with phone numbers and addresses was included. Richard Daff was listed as the primary coordinator with John Mural listed as the first alternate and Frank Blackwell as the second alternate. The role of the commanders is explained in the plan. The plan includes emergency evacuation information and maps and emergency equipment lists along with descriptions, capabilities, and locations. The plan lists agreements with the Cleveland police and fire departments, Fairview hospital, the Cuyahoga County local emergency planning commission (LEPC), but not the emergency contractor. According to manifests, the emergency contractor may be Nexeo Solutions. Arrangements with these entities are not described in the plan.

Training: Each employee has an electronic "Learning Plan." The system notifies the employee 30 days in advance of expiration of annual required training. Much of the training is provided electronically. Employees who sign manifests, handle waste in 90-day areas, and are emergency coordinators have received site specific safety training and Emergency Action Plan training within the last year as of 10/14. Joan Tomazic, the Environmental Manager, was last trained on 4/30/15 in Environmental Waste Management including 40 CFR §§ 262.34 and 273 provided by Nexeo Solutions. Susan Manhart conducts non-electronic training for all of the employees at the facility.

Documentation of job descriptions and expected training as they related to hazardous waste management were not available for review during the inspection.

Manifests: Three years of hazardous waste manifests were available for review. The manifests were mainly signed by Joan Tomazic and Daniel Tyler. The Emergency responder listed on the manifest was Nexeo Solutions. Each manifest appeared to be complete and had a signed copy from the destination facility.

Land disposal restriction (LDR) forms were also available for review. Underlying hazardous constituents were not identified on the forms. Some forms did not designate wastewater or non-wastewater.

Used Oil is manifested to Clean Harbors Chattanooga, LLC (TND982141392).

Manifest 008323683FLE, dated 4/30/15, was for a shipment of dimethylisoporpylamine contaminated with sulfuric acid. 15,217 pounds were shipped off-site. No waste codes were included on the manifest. I discussed this shipment with Mr. Daff who looked into the shipment and explained that this material was not hazardous even for pH. He provided me a copy of the waste profile for this waste (Amine Sulfates).

Manifest 006745544FLE was for a wastewater that was exported to Clean Harbors Canada, Inc. This material was handled through Clean Harbors Environmental Services, Inc. ("CHESI"). Section 14 of the manifest states, "CHESI, EPAID No. MIR000014530, is acting as the primary exporter on behalf of the generator." CHESI may have the necessary documentation required for exporting hazardous waste.

<u>Universal Waste bills of lading</u>: Lamps and batteries are recycled through the Waste Management, Inc., WM Lamp Tracker system. The most recent shipments of lamps was on 5/5/15. Batteries appeared to have last been shipped off-site on 3/5/14.

Weekly Inspections: Inspections were being conducted in the 90-day hazardous waste accumulation area. The record included housekeeping, containers, the storage area, spill kit and fire extinguishers, among other items. The record showed that inspections were not being conducted consistently every week. See the following gaps for 2014 and 2015:

```
1/8/14 - 1/21/14;

1/30/14 - 2/19/14;

2/26/14 - 3/20/14;

5/29/14 - 6/11/14;

9/26/14 - 10/7/14;

10/17/14 - 10/30/14 - 11/11/14;

11/19/14 - 12/11/14;

1/30/15 - 2/12/15;

4/8/15 - 4/21/15; and,

5/9/15 - 5/20/15.
```

Waste Determinations: Of dozens of profiles, I spot-checked the following waste profiles: Amine scrubber solution, Novaset filters, phenol contaminated soils (2011), amine filters, distillate condensate, Hi-Sol Blend (ignitable, used in all manufacturing), Used motor oil (total halogens <1,000). 50% formaldehyde solution, and Part 1 non-hazardous scrap.

## **Closing Conference**

The following items were discussed with ASK personnel at the close of the inspection:

- Confidential Business Information (CBI) was not claimed for any of the information discussed or gathered throughout the inspection.
- Management of the methanol depleted distillate found in three totes around the facility grounds.
- Management of eight 55-gallon drums off-spec Pep-Set Catalyst observed during the inspection and potential for speculative accumulation.
- Satellite accumulation requirements.
- Potential for incompatible wastes to be stored together in the 90-day storage area.
- LDR form requirements (UHC's, designating as wastewater or non-wastewater, and certification statements).
- Weekly inspection requirements.
- Condition of tank 32.
- Universal waste batteries storage time.
- Applicability of the F005 listing for toluene used for its solvent properties in a lab test.
- Lack of a formaldehyde limit on the sewering permit.

## List of Appendices

- Appendix A: Photograph Log
- Appendix B: Checklists
- Appendix C: Documents Received During the Inspection

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# Appendix A

# Photograph Log

Inspection Date: July 14-15, 2015

Facility Name and ID Number: ASK Chemicals EPA ID: OHD076751320

Inspector and Photographer:
Brenda Whitney
Compliance Section 2
RCRA Branch
Land and Chemicals Division

Camera Used: Olympus Stylus 600 Serial Number: A47525904

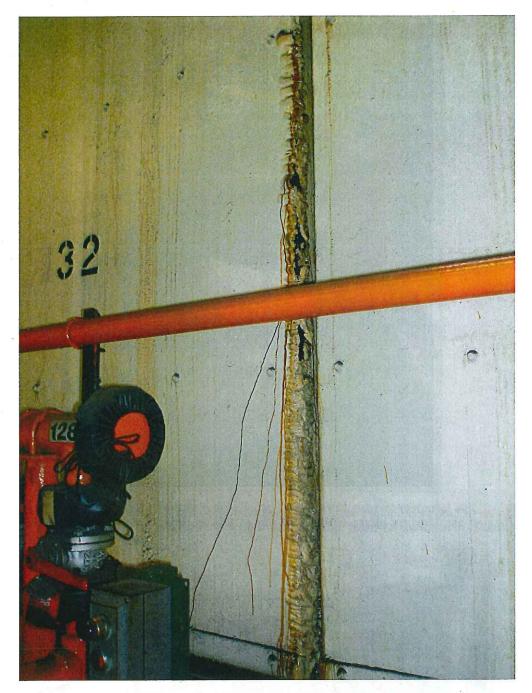
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Photograph 1 — The QC Laboratory transfers waste from a 2-gallon container inside the lab to this 55-gallon drum outside of the lab. The drum was closed and labeled as "Hazardous Waste." ASK was managing this drum as a satellite container.



Photograph 2 – A puddle of phenolic resin was situated in front of tanks 31 and 32. These tanks hold product resins and are located in the "Old Warehouse," also known as Building 2.



 $Photograph\ 3-Tank\ 32\ appeared\ to\ be\ leaking\ phenolic\ resin\ into\ the\ puddle\ that\ was\ identified\ in\ Photograph\ 2\ above.$ 



Photograph 4 — On the east side of Building 11, were eight 55-gallon drums of "Pep-Set" catalyst. According to Mr. Daff, this material will be blended back into new batches of the catalyst over time. The material will not first be reclaimed.



Photograph 5 — In Building 12, near the reactor control room was the Reactor In-Process lab. The red two-gallon container on the left was not labeled, but was closed. The two, red, 1-gallon containers at the rear of the hood were labeled as "Lab Solvent Waste" and were closed.

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# Appendix B

# Checklists

**Inspection Date:** July 14-15, 2015

**Facility Name and ID Number:** ASK Chemicals OHD076751320

Inspector:
Brenda Whitney
Compliance Section 2
RCRA Branch
Land and Chemicals Division

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		LARGE QUANTITY GENERATOR REQUIREMENT	S		÷			
		COMPLETE AND ATTACH A PROCESS DESCRIPTION SI	UMMA	RY				
CESC	(G: ≤10	0 Kg. (Approximately 25-30 gallons) of waste in a calendar month or < 1 I	Kg. of a	acute	ly haz	ardo	us wa	aste.
SQG:	Betwee	en 100 and 1,000 Kg. (About 25 to under 300 gallons) of waste in a calend	dar mo	nth.				
LQG:	≥ 1,000	) Kg. (~300 gallons) of waste in a calendar month or ≥1 Kg. of acutely haz	ardous	was	te in a	a cal	endar	month.
NOTE	: То сс	nvert from gallons to pounds: <u>Amount in gallons x Specific Gravity x 8.34</u>	5 = Am	ounts	s in po	ouna	<u>ls</u>	
		ment Used:						
	programmen gra-	REQUIREMENTS	,					
1.	Have 52-11	all wastes generated at the facility been adequately evaluated? [3745-]	Yes	ZĮ.	No		N/A	
2.	Are re 40(C)	ecords of waste determination being kept for at least 3 years? [3745-52-	Yes	X	No	Ď,	N/A	
3.	Has tl	ne generator obtained a U.S. EPA identification number? [3745-52-12]	Yes	X	No		N/A	
4.		biennial reports filed with Ohio EPA on or before March 1st? [3745-52-] (filed on even years for previous year)	Yes	A	No	□·.	N/A	
5.	Are b	ennial reports kept on file for at least 3 years? [3745-52-40(B)]	Yes	X	No		N/A	
6.	to oth	ne generator transported or caused to be transported hazardous waste er than a facility authorized to manage the hazardous waste? [ORC 02(F)]	Yes		No	Ø	N/A	
7.	at and	ne generator disposed of hazardous waste <b>on-site without a permit</b> or other facility <b>other</b> than a facility authorized to dispose of the hazardous of [ORC 3734.02(E)&(F)]	Yes		No	X	N/A	
8.	Does	the generator accumulate hazardous waste?	Yes	X	No		N/A	
		e LQG does not accumulate or treat hazardous waste, it is not subject to 5 s still apply, e.g., annual reports, manifest, marking, record keeping, LDR,		tanda	ards.	All o	ther	
9.	Has t	he generator accumulated hazardous waste on-site in excess of 90 days ut a permit or an extension from the director ORC §3734.02(E)&(F)?	Yes		No	X	N/A	
NOTE	: If F0	06 waste is generated and accumulated for > 90 days and is recycled see	3745-	52-3	4(G)8	(H).		
10.	Does	the generator treat hazardous waste in a: [ORC 3734.02(E)&(F)]		, ne				
	a.	Container that meets 3745-66-70 to 3745-66-77?	Yes	П	No		N/A	×
	b.	Tank that meets 3745-66-90 to 3745-66-100 except 3745-66-97(C)?	Yes	П	No		N/A	Ď.
. /	C.	Drip pads that meet 3745-69-40 to 3745-69-45?	Yes		No		N/A	X

Facility Name/Inspection Date]
[ID Number]
LQG Checklist April 2014 revision
Page 1 of 12

14	d.	Containment building that meets 3745-256-100 to 3745-256-102?	Yes		No □ N/A	Q
NOTE	: Com	plete appropriate checklist for each unit.				
NOTE	: If wa	ste is treated to meet LDRs, use LDR checklist.			2	
11.	Does	the generator export hazardous waste? If so:  THROUGH CLEAN HAPBORS	Yes	X	No □ N/A	
ži:	a.	Has the generator notified U.S. EPA of export activity? [3745-52-53(A)]  VNDETERMINED - INVESTIGATING	Yes		No □ N/A	<b>—</b> "
	b.	Has the generator complied with special manifest requirements? [3745-52-54]	Yes	"П	No □ N/A	
н	C.	For manifests that have not been returned to the generator: has an exception report been filed? [3745-52-55]	Yes		No □ N/A	
	d.	Has an annual report been submitted to U.S. EPA? [3745-52-56]	Yes		No □ N/A	
	e.	Are export related documents being maintained on-site? [3745-52-57(A)]	Yes		No □ N/A	
MANI	FEST F	REQUIREMENTS				
12.		all hazardous wastes shipped off-site been accompanied by a est? (U.S. EPA Form 8700-22) [3745-52-20(A)(1)]	Yes	×	No □ N/A	
13.		items (1) through (20) of each manifest been completed? -52-20(A)(1)]&[3745-52-27(A)]	Yes	X	No 🗆 N/A	
		EPA Form 8700-22(A) (the continuation form) may be needed in addition ms (21) through (35) must also be completed. [3745-52-20(A)(1)]	to For	m 87	00-22. In these	
14.		each manifest designate at least one facility which is permitted to e the waste? [3745-52-20(B)]	Yes	X	No □ N/A	
		generator may designate on the manifest one alternate facility to handle to which prevents the delivery of waste to the primary designated facility. [374]				***
15.	desig	transporter was unable to deliver a shipment of hazardous waste to the nated facility, did the generator designate an alternate TSD facility or ne transporter instructions to return the waste? [3745-52-20(D)]	Yes		No □ N/A	×
16.		the manifests been signed by the generator and initial transporter? -52-23(A)(1)&(2)]	Yes	×	No □ N/A	
		ind the generator that the certification statement they signed indicates: 1) transportation and 2) they have a program in place to reduce the volume				
17.	If the	generator received a rejected load or residue, did the generator:			0.2	
	a.	Sign item 20 of the new manifest or item 18c of the original manifest?	Yes		No 🔲 N/A	X

		[3745-52-23(F)(1)			0			
	b.	Provide the transporter a copy of the manifest? [3745-52-23(F)(2)]	Yes		No	□ N/A	( )	<u> </u>
	C.	Send a copy of the manifest to the designated facility that returned the shipment with 30 days after delivery of the rejected shipment? [3745-52-23(F)(3)]	Yes		No	□ N/A	( ۱	₹ .
18.	within gene	generator did not receive a return copy of each completed manifest a 35 days of the waste being accepted by the transporter, did the rator contact the transporter and/or TSD facility to check on the status of easte? [3745-52-42(A)(1)]	Yes	×	No	□ N/A	A j	ar gu
19.		generator has not received the manifest within 45 days, did the rator file an exception report with Ohio EPA? [3745-52-42(A)(2)]	Yes		No	□ N/A	4	X
20.		igned copies of all manifests and any exception reports being retained least three years? [3745-52-40]	Yes	×	No	□ N//	A	
NOTI storag and to a tran	E: Was ge or tr ranspo nsfer fa	onth. [3745-52-34(M)]  Inste generated at one location and transported along a publicly accessible of the same person is not of the same person is n	conside the des	ered ' stinat	on-site ion faci	" and r lity has	nan s to	ifesting act as
	el nescondent an	EL TRAINING		_				
21.	Does	the generator have a training program which teaches facility personnel rdous waste management procedures (including contingency plan ementation) relevant to their positions? [3745-65-16(A)(2)]	Yes	X	No	□ N/.	A	
22.	ensu invol eme	s the personnel training program, at a minimum, include instructions to re that facility personnel are able to respond effectively to emergencies ving hazardous waste by familiarizing them with emergency procedures, regency equipment and emergency systems (where applicable)? [3745-6(A)(3)]	Yes	×	No	□ N/A	A	
requi	red to	facility employees that receive emergency response training pursuant to operate emergency response training, provided that the overall facts of OAC 3745-65-16(A). [3745-65-16(A)(4)]						is not
23.	Is the	e personnel training program directed by a person trained in hazardous e management procedures? [3745-65-16(A)(2)]	Yes	×	No	□ N/	Α	
24.		new employees receive training within six months after the date of hire (or gnment to a new position)? [3745-65-16(B)]	Yes	×	No	□ N/	Α	

25.	Does	the generator provide refresher training to employees during each	Yes	M	No □ N/A □
	period	d from January 1st to December 31st and does each training occur within		/\	
	15 m	onths after the previous training? [3745-65-16(C)]			_N N 81 %
	1				
26.	Does	the generator keep records and documentation of:			
	a.	Job titles? [3745-65-16(D)(1)]	Yes	X	No □ N/A □
	b.	Job descriptions? [3745-65-16(D)(2)]	Yes	×	No 🗆 N/A 🗆 .
	C.	A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under paragraph (D)(1) of this rule? [3745-65-16(D)(3)]	Yes	×	No □ N/A □
	d.	Completed training or job experience required? [3745-65-16(D)(4)]	Yes	K	No □ N/A □
27.	are tra	aining records for current personnel kept until closure of the facility and aining records for former employees kept for at least three years from ate the employee last worked at the facility? [3745-65-16(E)]	Yes	×	No 🔲 N/A 📋
		following section can be used by the inspector to document that all perso			
		raste management have been trained. The employees who need training			
		ollowing: environmental coordinators, drum handlers, emergency coordina			nnel who conduct
hazar	dous w	raste inspections, emergency response teams, personnel who prepare ma	anifest	etc	
770207	doud W	aste inspections, emergency response teams, personner who propare me	Zimoot,	Oto.	25
	Perform		armoot,	Cio.	Date Trained
			armoot,		<u>Date Trained</u>
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Job F	Perform	ed Name of Employee	armoot,		Date Trained
Job F	Perform	Name of Employee			Management and a second
Job F	Perform  FINGEN  Does	NCY PLAN the owner/operator have a contingency plan to minimize hazards to	Yes	<b>X</b>	Date Trained  No □ N/A □
Job F	FINGEN Does huma	Name of Employee  NCY PLAN  the owner/operator have a contingency plan to minimize hazards to n health or the environment from fires, explosions or any unplanned			Management and a second
Job F	FINGEN Does huma releas	NCY PLAN the owner/operator have a contingency plan to minimize hazards to n health or the environment from fires, explosions or any unplanned se of hazardous waste? [3745-65-51(A)]			Management and a second
Job F	FINGEN Does huma releas	Name of Employee  NCY PLAN  the owner/operator have a contingency plan to minimize hazards to n health or the environment from fires, explosions or any unplanned			Management and a second
Job F CONT 28.	FINGEN Does huma releas	NCY PLAN the owner/operator have a contingency plan to minimize hazards to n health or the environment from fires, explosions or any unplanned se of hazardous waste? [3745-65-51(A)]			Management and a second
Job F CONT 28.	Perform  FINGEN  Does huma releas  Does	NCY PLAN  the owner/operator have a contingency plan to minimize hazards to n health or the environment from fires, explosions or any unplanned se of hazardous waste? [3745-65-51(A)]  the plan describe the following:  Actions to be taken in response to fires, explosions or any unplanned	Yes		No □ N/A □
Job F CONT 28.	Perform  FINGEN  Does huma releas  Does a.	NCY PLAN  the owner/operator have a contingency plan to minimize hazards to n health or the environment from fires, explosions or any unplanned se of hazardous waste? [3745-65-51(A)]  the plan describe the following:  Actions to be taken in response to fires, explosions or any unplanned release of hazardous waste? [3745-65-52(A)]	Yes	M	No   N/A

	e.	An evacuation plan for facility personnel where there is possibility that evacuation may be necessary? [3745-65-52(F)]	Yes	×	No		N/A	
other suffic requii	emerge ient to d rements	e facility already has a "Spill Prevention, Control and Countermeasures Placency plan, the facility can amend that plan to incorporate hazardous wasted comply with OAC requirements. The facility may develop one contingency is. Ohio EPA recommends that the plan be based on the "National Responder (One Plan)." [3745-65-52(B)]	mana plan v	geme vhich	ent pro meets	visio s all i	ns th regula	at are atory
30.	emero [3745	opy of the plan (plus revisions) kept on-site and been given to all gency authorities that may be requested to provide emergency services?  -65-53(A)&(B)]  Emergency Contractor SWS	Yes		No	×	N/A	<u> </u>
31.		ne generator revised the plan in response to rule changes, facility, ment and personnel changes, or failure of the plan? [3745-65-54]	Yes	3	No		N/A	
32.	Is an 65-55	emergency coordinator available at all times (on-site or on-call)? [3745-]	Yes	×	No		N/A	
all op	erations ds withi	emergency coordinator shall be thoroughly familiar with: (a) all aspects of s and activities at the facility; (c) the location and characteristics of waste n the facility; (e) facility layout; and (f) shall have the authority to commit to the contingency plan.	handle	d; (d)	the lo	catio	on of a	all
EME	RGENC	Y PROCEDURES						
33.		here been a fire, explosion or release of hazardous waste or hazardous constituents since the last inspection? If so:	Yes		No	×	N/A	
	a.	Was the contingency plan implemented? [3745-65-51(B)]	Yes		No		N/A	×
	b.	Did the facility follow the emergency procedures in 3745-65-56(A) through (H)?	Yes		No		N/A	×
	C.	Did the facility submit a report to the Director within 15 days of the incident as required by 3745-65-56(I)?	Yes		No		N/A	M
explo		3745-65-51(B) requires that the contingency plan be implemented imme release of hazardous waste or hazardous waste constituents, which could	-					

PREP	ARED	NESS AND PREVENTION			V.	
34.		facility operated to minimize the possibility of fire, explosion, or any need release of hazardous waste? [3745-65-31]	Yes	×	No □ N/A	
35.		the generator have the following equipment at the facility, if it is required actual hazards associated with the waste:	1377			
	a.	Internal communications or alarm system? [3745-65-32(A)]	Yes	X	No □ N/A	
	b.	Emergency communication device? [3745-65-32(B)]	Yes	X	No □ N/A	
19 0	C.	Portable fire control, spill control and decon equipment? [3745-65-32(C)]	Yes	×	No □ N/A	
	d.	Water of adequate volume/pressure per documentation or facility rep? [3745-65-32(D)]	Yes	×	No 🔲 N/A	- 🔲
NOTE	: Verif	y that the equipment is listed in the contingency plan.				
36.	Is em	ergency equipment tested (inspected) as necessary to ensure its proper tion in time of emergency? [3745-65-33]	Yes	×	No □ N/A	
37.		nergency equipment tests (inspections) recorded in a log or summary? 65-33]	Yes	×	No □ N/A	
38.	comm	rsonnel have immediate access to an internal alarm or emergency unication device when handling hazardous waste (unless the device is quired under 3745-65-32)? [3745-65-34(A)]	Yes	×	No 🔲 N/A	
39.	device extern	e is only one employee on the premises, is there immediate access to a (eg. phone, and hand held two-way radio) capable of summoning al emergency assistance (unless not required under 3745-65-32)? 65-34(B)]	Yes	×	No. □ N/A	
40.		quate aisle space provided for unobstructed movement of emergency control equipment? [3745-65-35]	Yes	×	No □ N/A	
41.		le generator attempted to familiarize emergency authorities with le hazards and facility layouts? [3745-65-37(A)]	Yes	×	No □ N/A	
42.		e authorities have declined to enter into arrangements or agreements, e generator documented such a refusal? [3745-65-37(B)]	Yes		No □ N/A	<b>X</b>
SATE	LLITE .	ACCUMULATION AREA REQUIREMENTS		0		
43.	Does	the generator ensure that satellite accumulation area(s):			2 No. 10 No. 20	
	a.	Are at or near a point of generation? [3745-52-34(C)(1)]	Yes	П	No 🕱 N/A	

	b.	Are under the control of the operator of the process generating the waste? [3745-52-34(C)(1)]	Yes		No	K	N/A	
	C.	Do not exceed a total of 55 gallons of hazardous waste per waste stream? [3745-52-34(C)(1)]	Yes	X	No		N/A	
	d.	Do not exceed one quart of acutely hazardous waste at any one time? [3745-52-34(C)(1)]	Yes	×	No		N/A	
	e.	Containers are closed, in good condition and compatible with wastes stored in them? [3745-52-34(C)(1)(a)]	Yes	×	No		N/A	
	f.	Containers are marked with words "Hazardous Waste" or other words identifying the contents? [3745-52-34(C)(1)(b)]	Yes		No	¤	N/A	
44.		generator accumulating hazardous waste(s) in excess of the amounts in the preceding question? If so:	Yes		No	×	N/A	
	a.	Did the generator comply with 3745-52-34(A)(1) through (4) or other applicable generator requirements within three days? [3745-52-34(C)(2)]	Yes		No		N/A	×
	b.	Did the generator mark the container(s) holding excess with the accumulation date when the 55 gallon (one quart) limit was exceeded? [3745-52-34(C)(2)]	Yes		No		N/A	×
gener acute gener	ation ir hazaro ation.	satellite accumulation area is limited to 55 gallons of hazardous waste ac the process under the control of the operator of the process generating to dous waste). There could be individual waste streams accumulated in an	he was area fr	ste (le	ss the	en 1	quart	for
USE /		ANAGEMENT OF CONTAINERS IN <90 DAY ACCUMULATION AREA	S					n In
45.	101000000000000000000000000000000000000	he generator marked containers with the words "Hazardous Waste?" i-52-34(A)(3)]	Yes	X	No		N/A	д <b>П</b> 104
46.	clear	date upon which each period of accumulation and/or treatment begins is y marked and visible for inspection on each container?	Yes	×	No		N/A	
47.	Are h	azardous wastes stored in containers which are:	riche					
	a	Closed (except when adding/removing wastes)? [3745-66-73(A)]	Yes	×	No	П	N/A	
	b.	In good condition? [3745-66-71]	Yes	X	No	П	N/A	
	C.	Compatible with wastes stored in them? [3745-66-72]	Yes	Ø	No		N/A	
	d.	Handled in a manner which prevents rupture/leakage? [3745-66-73(B)]	Yes	X	No		N/A	

NOTE	: Record location on process summary sheets, photograph the area, and record	d on facil	lity map.	9						
48.	Is the container accumulation areas(s) inspected at least once during the period from Sunday to Saturday? [3745-66-74]	Yes	□ No X N/A							
	a. Are inspections recorded in a log or summary? [3745-66-74]	Yes	No □ N/A							
49.	Are containers of ignitable or reactive wastes located at least 50 feet (15 meters) from the facility's property line? [3745-66-76]	Yes	No □ N/A							
50.	Are containers of incompatible wastes stored separately from each other by means of a dike, berm, wall or other device? [3745-66-77(C)]	Yes	□ No □ N/A							
51.	If the generator places incompatible wastes, or incompatible wastes and materials in the same container, is it done in accordance with 3745-65-17(B)? [3745-66-77(A)]	Yes	□ No □ N/A	×						
52.	If the generator places hazardous waste in an unwashed container that previously held an incompatible waste, is it done in accordance with 3745-65-17(B)? [3745-66-77(B)]									
NOTE: OAC 3745-65-17(B) requires that the generator treat, store, or dispose of ignitable or reactive waste, and the mixture or commingling of incompatible wastes, or incompatible wastes and materials so that it does not create undesirable conditions or threaten human health or the environment.										
53.	If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)]	Yes	□ No □ N/A	×						
		n 1/2		ā Li						
NOTE: Please provide a description of the unit and documentation provided by the generator for the file to demonstrate that closure was completed in accordance with the closure performance standards. If the generator has closed a <90 day tank, closure must also be completed in accordance with OAC 3745-66-97 (except for paragraph C of this rule). [3745-52-34]										
PRE-	RANSPORT REQUIREMENTS			v r						
54.	Does the generator package/label its hazardous waste in accordance with the applicable DOT regulations? [3745-52-30, 3745-52-31 and 3745-52-32(A)]	Yes )	No □ N/A							
55.	Does each container ≤119 gallons have a completed hazardous waste label? [3745-52-32(B)]	Yes )	No □ N/A							
56.	Before off-site transportation, does the generator placard or offer the appropriate DOT placards to the initial transporter? [3745-52-33]	Yes )	No □ N/A							

		i la	GENERATOR LDR CHECKLIST DOES NOT APPLY TO CESQGS							
GENERA	AL REC	IIIREN								
1.	If LDF the H	Rs do no	ot apply, does the generator have a statement that lists how generated, why LDRs don't apply and where the HW went?	Yes		No		N/A	×	
2.	Did th treatm	e genei nent sta	rator determine if the HW/soil must be treated to meet the LDR ndard prior to disposal? Generator knowledge or testing may 15-270-07(A)(1)] If not,	Yes		No		N/A	×	
	a.	Did th	e generator send the waste to a permitted HW TREATMENT (? [3745-270-07(A)(1)]	Yes		No		N/A	X	
treatmer determin	nt stand ation is 0-49 (al	ard in 3 require ternativ	determining if the HW /soil contains levels of constituents greate 745-270-40. However, if a specific treatment method is given in ad [3745-270-07(A)(1)(b)]. If soil, generator can choose to have treatment levels for soils).	3745-	270-4	40 for	the F	⊣W, r	10	
3.	HW/s	oil mee	nerator have documentation of how he determined whether the ts or does not meet the LDR treatment standard in 2, above? 7(A)(6)(a) or 3745-270-07(A)(6)(b)]	Yes		No		N/A	×	
4.	Does for at	the ger least th	nerator keep the documentation required in #2, above, on-site ree years from the last date the HW/soil was sent on-site/off-nent/disposal? [3745-270-07(A)(8)]	Yes		No		N/A	X	
5.			nerator generate a listed HW that exhibits a characteristic? If	Yes	×	No	П.	N/A		
	a.	that is	e generator determine if the listed HW exhibits a characteristic not treated under the LDR treatment standard for the listed [3745-270-09(A)]	Yes	×	No		N/A		76.00
			that exhibits the characteristic for silver or K062 that is corrosive to to determine what constituents the listed HW is treated for.	, D002	. Re	view I	LDR	treati	nent	
6.	Did th	e gene	rator determine if its characteristic HW contains underlying onstituents that need to be treated? [3745-270-09(A)]	Yes	X	No		N/A		40
universa	I treatm	ent sta	evaluating which underlying hazardous constituents (UHC) are in address given in 3745-270-48. This requirement does not apply to 2001 wastes or listed HWs.	n the F o high i	∃W a total (	t leve organ	ls ab ic ca	ove ti rbon	he (i.e.,	
NOTE: V	Vritten (	docume	entation of this determination is not required.				,		9/	
7.	Did th		rator treat his HW /soil on-site to meet the LDR treatment	Yes		No	×	N/A		je .
NOTE: I	f "Yes"	see que	estion #16.							
8.			rator send a one-time LDR notification form to the TSD with the to that facility? [3745-270-07(A)(2)]	Yes	X	No		N/A		
	a. If the generator chose not to make the determination of whether his waste must be treated, did he send a notice to the TSD facility with each shipment? [3745-270-07(A)(2)] If so, did the notice include:					No		N/A	X	
-	œ.	i	Applicable HW codes?	Yes		No		N/A	A	
H.		ii	Manifest number of the first shipment to the TSD?	Yes		No		N/A	DX.	
A	4 52	iii	A statement that conveys that the HW may or may not be subject to the LDR treatment standards and the TSD must make that determination."?	Yes		No		N/A	×	

75					1	1/x			)			
9.			erator resubmit the LDR notification form to the TSD when the d or the generator used a new TSD? [3745-270-07(A)(2)]	Yes		17 2 3 2 2 CO		N/A	X			
10.			nerator have a copy of the LDR notification form/notice on file? 7(A)(2)]	Yes	×	No		N/A				
£0.	а.		form/notice kept on file for three years after last HW shipped? -270-07(A)(8)]	Yes	X	No		N/A				
NOTIFIC	ATION	FORM	4 2									
11.	Does the LDR Notification form contain the following information:											
a	a.	Manif 07(A)	est number of the first waste shipment to the TSD? [3745-270-(2)]	Yes	×	No		N/A				
	b.	HW if	cable waste codes (includes characteristic codes for a listed applicable)? [3745-270-07(A)(2)]	Yes	×	No		N/A				
H <sub>MS</sub>	C.	be tre 07(A)		Yes		No	×	N/A				
	d.		ignation whether the HW is a wastewater or non-wastewater? -270-07(A)(2)]	Yes		No	X	N/A				
NOTE: A wastewa method 9	ter or n	on-was	contains <1% by wt. total suspended solids(TSS) and <1% by wt stewater, the HW can be tested using for example, Standard Met c.	t TOC. hods (	If yo SM) 1	ou dou 160.2	ibt tl for 7	ne HV SS, S	V is a SW-846			
3	e.		nation of the waste subcategory when applicable? -270-07(A)(2)]	Yes		No	Ú.	N/A	X			
NOTE: S have sub			are found on the LDR treatment standards table under the applic	cable v	vaste	code.	. No	t all F	HWs			
v	f.		ng of the underlying hazardous constituents for which a NoNE cteristic waste must be treated? [3745-270-07(A)(2)]	Yes		No .	П	N/A				
NOTE: I		uired if	the waste is high TOC D001 or the TSD tests its treatment resid	ues for	all u	nderly	ing .	hazar	dous			
	g.	form v	HW is F001-F005 or F039, did the generator note on the LDR what solvents or constituents, respectively, the waste contains nust be treated for? [3745-270-07(A)(2)]	Yes	X	No		Ŋ/A				
NOTE: I	Vot regi	uired if	the TSD tests its treatment residues for all underlying hazardous	consti	tuent	S.						
PROHIB	ITED D	ILUTIO	DN									
12.	Is the	Yes	. 🔲	No		N/A	×					
		If "No" go to #15.										
13.	Is the HW a metal-bearing HW?  Yes □ No □ N/A >							X				
metals.		the res	al-bearing HWs contain heavy metals above TCLP levels or were stricted metal-bearing HWs are given in the Appendix to 3745-27		due t	to the	pres	sence	of			
14.	a.	Metaland b	2									
		i.	Contains > 1% TOC?	Yes		No		N/A	×			
6		ii.	Contains organic constituents or cyanide at levels greater than the UTS levels?	Yes		No		N/A	×			
		iii.	Is made up of combustible material e.g., paper, wood, plastic?	Yes		No		N/A	X			

,•		iv.	Has a reasonable heating value (e.g., > 5000 Btu)?	Yes		No		N/A	×
		٧.	Co-generated with a HW that must be combusted?	Yes		No		N/A	X
	b.	impro	esponses to 14 a.i. through 14 a.v. are "No", HW is being perly treated by dilution, violation of 3745-270-03(C). Is HW treated by dilution?	Yes	П	No		N/A	×
15.	Was tl	ne HW	treated by wastewater treatment?	Yes		No		N/A	×
	a.		DR treatment method, other than DEACT or a numerical value, fied for the waste? [3745-270-03(B) and 3745-270-40(A)(3)]	Yes		No		N/A	×
NOTE: I	f "Yes",	HW is	improperly being treated by dilution.	1 1.016			7/.		
2	b.		the waste carry the D001 code <u>and</u> contain ≥10% TOC?	Yes		No		N/A	×
	C.		the wastewater treatment process include a process to rate/recover the organic phase of the waste?	Yes		No		N/A	×
			to b & c are "yes" and "no", respectively, waste is improperly bein n of [3745-270-03(B)] and 3745-270-40(A)(3)].	ng trea	ted b	y dilu	tion	and	(*)
NOTE: A	A list of	separa	tion/recovery processes are given in 3745-270-42 under RORG.						
GENERA	ATOR T	REAT	MENT						
16.		44	nerator treat to meet LDRs on-site?	Yes		No	X	N/A	
Je.	drip pa	ad or c	rator treat his hazardous waste/soil on-site in a tank, container, ontainment building to meet the LDR treatment standard?	Yes	*	No		N/A	X
27	If "Yes	s"cor	nplete the rest of the checklist. If "No"stopyou are done.			4			
	a.	descr	the generator have a written waste analysis plan (WAP) that ibes the procedures he will follow to treat the HW/soil to the treatment standard? [3745-270-07(A)(5)]	Yes		No		N/A	×
	b.		ne generator use a detailed chemical and physical analysis of W/soil in order to develop the WAP? [3745-270-07(A)(5)(a)]	Yes		No		N/A	X
NOTE: T	his is a	labora	tory analysis but it does not have to be kept by the generator.						
	C.		the WAP contain all information necessary to treat the HW/soil LDR treatment standard? [3745-270-07(A)(5)(a)]	Yes		No		N/A	×
	d.	to de	the WAP include the testing frequency of the treated HW/soil monstrate that the LDR treatment standard is being met? i-270-07(A)(5)(a)]	Yes		No		N/A	×
	e.	Does	the generator keep the WAP on-site? [3745-270-07(A)(5)(b)]	Yes		No		N/A	×
65	f.		WAP available for the inspector's review during the ction? [3745-270-07(A)(5)(b)]	Yes		No		N/A	X
NOTIFIC	ATION	FORM	I FOR GENERATOR TREATMENT						No.
17.	a.	Conta	ains all information in #11 a-g above and	Yes		No		N/A	



								CONTRACTOR OF THE PROPERTY OF
	b.			HW/soil is listednotification contains the following statement:	Yes		No 🗆 N/A	×
		"I cer am fa know comp to 374 are si the po	,	×				
	C.		r a HW	HW/soil no longer exhibits a characteristic and is no //, did the generator:		e, =	"e	
(*)		i.	Prepa	are a one-time notification? [3745-270-09 (D)]	Yes		No 🗆 N/A	X
	lú	íi.	Main	ntain a copy of the notice onsite? [3745-270-09(D)]			No □ N/A	Ø
		iii.	Includ	de in the notification: [3745-270-09(D)]				
*			1.	Name & address of receiving landfill?	Yes	П	No □ N/A	A
÷			2.	Description of HW when generated?	Yes	- 🗆	No 🗆 N/A	X
		8.	3.	HW code when generated?	Yes		No 🗆 N/A	X
F.1		2	4.	Treatability group when generated?	Yes		No □ N/A	×
±	a <sup>2</sup>		5.	Underlying hazardous constituents present when generated?	Yes	П	No □ N/A	×
		iv.		ain the certification statement as required by -270-07(B)(4)?	Yes		No □ N/A	×

	SMALL QUANTITY UNIVERSAL WASTE HANDLER RE	QUIREM	ENTS
	BATTERIES AND LAMPS		0
	Quantity Universal Waste Handler (LQUWH) = 5,000 Kg or more		
	Quantity Universal Waste Handler (SQUWH) = 5,000 Kg or less		
PROF	HIBITIONS  Did the SOUNALL diagram of universal weets 2 (2745-272-14/A)		T., V =
	Did the SQUWH dispose of universal waste? [3745-273-11(A)]	Yes 🗆	No ⋈ N/A □
2.	Did the SQUWH dilute or treat universal waste, except when responding to releases as provided in OAC rule 3745-273-17 or managing specific wastes as provided in OAC rule 3745-273-13? [3745-273-11(B)]	Yes	No N/A
WAS	TE MANAGEMENT AND LABELING/MARKING		
2027/07/2002	ERSAL WASTE BATTERIES		6
3.	Are batteries that show evidence of leakage, spillage or damage that could cause leaks contained? [3745-273-13(A)(1)]	Yes □	No □ N/A 🕱
4.	If batteries are contained, are the containers closed and structurally sound, compatible with the contents of the battery and lack evidence of leakage, spillage or damage that could cause leakage? [3745-273-13(A)(1)]	Yes 🗽	No 🗆 N/A 🗆
5	Are the casings of the batteries breached, not intact, or open (except to remove the electrolyte)? [3745-273-13(A)]	Yes 🗆	No X N/A
6.	If the electrolyte is removed or other wastes generated, has it been determined whether the electrolyte or other wastes exhibit a characteristic of hazardous waste? [3745-273-13(A)(3)]	Yes 🗆	No 🗆 N/A 💢
X	a. If the electrolyte or other waste is characteristic, is it managed in compliance with OAC Chapters 3745-50 through 3745-69? [3745-273-13(A)(3)(a)]	Yes	No □ N/A 🌂
X	b. If the electrolyte or other waste is not hazardous, is it managed in compliance with applicable law? [3745-273-13(A)(3)(b)]	Yes □	No □ N/A 🕱
7.	Are the batteries or containers of batteries labeled with the words "Universal Waste - Batteries" or "Waste Battery(ies)" or "Used Battery(ies)?" [3745-273-14(A)]	Yes 🗖	No N/A
UNIV	ERSAL WASTE LAMPS		Instance 5 Triples
8.	Does the SQUWH contain lamps in containers or packages that are structurally sound, adequate to prevent breakage, and compatible with contents of the lamps? Are containers or packages closed and do they lack evidence of leakage, spillage or damage that could cause leakage? [3745-273-13(D)(1)]	Yes DX	No 🗆 N/A 🗆
9.	Are lamps that show evidence of breakage, leakage or damage that could cause a release of mercury or hazardous constituents into the environment immediately cleaned up? Are they placed into a container that is closed, structurally sound, compatible with the contents of the lamps, and lack evidence of leakage, spillage or damage that could cause leakage or releases of mercury or hazardous waste constituents to the environment? [3745-273-13(D)(2)]	Yes 🗆	No 🗆 N/A 🙇
for se waste Crust	E: Treatment (such as crushing) by a UWH is prohibited under this rule unuch activities [3745-273-31(B)]. A generator crushing lamps must manage lawarder (OAC Chapter 3745-52). Lamp crushing is a form of generator treatment in the lamps must be transported by a registered hazardous waste transporter to by using a hazardous waste manifest.	mps accord at (OAC rule	ling to hazardous 3745-52-34).

10.	Are the lamps or containers or packages of lamps labeled with the words "Universal Waste - Lamp(s)" or "Waste Lamp(s)" or "Used Lamp(s)?" [3745-273-14(E)]	Yes	X	No □ N/A					
ACCI	IMULATION TIME	10		(4)					
11.	Is the waste accumulated for less than one year? [3745-273-15(A)]	Yes		No □ N/A					
	a. If not, is the waste accumulated over one year in order to facilitate proper recovery, treatment or disposal? (Burden of proof is on the handler to demonstrate) [3745-273-15(B)]	Yes		No □ N/A	×				
NOTE	: Accumulation is defined as date generated or date received from another ha	andler.	0		*				
12.	Is the handler able to demonstrate the length of time the universal waste has been accumulated? [3745-273-15(C)]	Yes		No □ N/A					
	If yes, describe below:	Lan	чрѕ	Yes A	4.4				
		*			le,				
Į.		76							
EMPL	OYEE TRAINING	**		A.					
13.	Are employees who handle or have the responsibility for managing universal waste informed of waste handling/emergency procedures, relative to their responsibilities? [3745-273-16]	Yes	×	No □ N/A					
RESPONSE TO RELEASES									
14.	Are releases of universal waste and other residues immediately contained? [3745-273-17(A)]	Yes		No □ N/A	X				
15.	Is the material released characterized? [3745-273-17(B)]	Yes		No □ N/A	X				
16.	If the material released is a hazardous waste, was it managed as required in OAC Chapters 3745-50 through 3745-69? (If the waste is hazardous, the handler is considered the generator of the waste and is subject to OAC Chapter 3745-52) [3745-273-17(B)]	Yes		No. □ N/A	×				
OFF-S	SITE SHIPMENTS		0.						
	: If a SQUWH self-transports waste, then the handler must comply with the U ements.	niversa	l Was	ste transporter					
	Are universal wastes sent to either another handler, destination facility or foreign destination? [3745-273-18(A)]	Yes	X	No □ N/A					
18.	Is the handler aware of DOT requirements for packaging and shipping?	Yes	×	No □ N/A					
Λ	If no, make aware of 49 CFR 171-180.		123	E-market and the second					
19.	Prior to shipping universal waste off-site, does the originating handler ensure that the receiver agrees to receive the shipment? [3745-273-18(D)]	Yes	X	No □ N/A					
20.	Has the originating handler ever had an off-site shipment rejected by another handler or destination facility?	Yes	· 🗆	No X N/A					
	a. If yes, did the originating handler receive the waste back or agree to where the shipment was sent? [3745-273-18(E)(2)]	Yes		No □ N/A	X				

21.	If a handler rejects a partial or full load from another handler, does the receiving handler contact the originating handler and discuss and do one of the following:	Yes □ No □ N/A 🔯
	a. Send the waste back to the originating handler or send the shipment to a destination facility (If both the originating and receiving handler agree)? [3745-273-18(F)(2)]	Yes □ No □ N/A 🏋
22.	If the handler received a shipment of hazardous waste that was not a universal waste, did the SQUWH immediately notify Ohio EPA? [3745-273-18(G)]	Yes □ No □ N/A 🕱
EXP	DRTS	
CFR in 40	E: Small quantity handlers that export waste to the countries listed in 40 CFR 2 262 subpart H. Small quantity handlers that export waste to a foreign destinat CFR 262.58(a)(1) are subject to 40 CFR 262.53, 40 CFR 262.56(a)(1) to (a)(4 20 CFR 262 subpart E. [3745-273-20]	tion other than the countries listed
	E: Violations regarding exporting universal waste to foreign destinations should have the federal counterpart provisions are not delegable to states	d be referred to U.S. EPA Region

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			•	
4.				
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			. *	•

#### USED OIL INSPECTION CHECKLIST GENERATORS, COLLECTION CENTERS AND AGGREGATION POINTS NOTE: 1. A facility is subject to the federal SPCC regulations (40 CFR 112) if it is non-transportation related (e.g., fixed) and has an aggregate above ground storage capacity greater than 1,320 gallons or a total underground storage capacity greater than 42,000 gallons of oil (including used oil), and there is reasonable expectation of a discharge to navigable waters. 2. Inspectors can check BUSTR's web-site at https://www.comapps.ohio.gov/sfm/fire apps/bust/bustr/PublicInquiry.asp to determine if a UST containing used oil is registered with BUSTR. Inspectors may call BUSTR at 614-752-7938 or a BUSTR site coordinator to report an unregistered UST or a UST that appears to not be in compliance with BUSTR regulations. A list of BUSTR coordinators by county are at: https://www.comapps.ohio.gov/sfm/fire apps/bust/bustr/SearchByCounty.asp. **PROHIBITIONS** Does the generator manage used oil in a surface Yes impoundment or waste pile? If yes: Is the surface impoundment or waste pile regulated as Yes No a hazardous waste management unit? [3745-279-12(A)1 NOTE: For example, used oil contaminated scrap metal stored in a pile. Is used oil used as a dust suppressant? [3745-279-12(B)] Yes No 3. Is off-specification used oil fuel burned for energy recovery in Yes No devices specified in 3745-279-12(C)? NOTE: Multiple used oil checklists may be applicable if used oil handler is performing multiple tasks (e.g., If generating used oil and shipping directly to a burner, complete generator and marketer checklists at a minimum). **GENERATOR STANDARDS** Does the generator mix hazardous waste with used oil? If so, Yes No N/A Is the mixture managed as specified in 3745-279-2 Yes 10(B)? [3745-279-21(A)] NOTE: Used Oil mixed with listed (3745-51-30 to 3745-51-35) or characteristic (3745-51-20 to 3745-51-24) hazardous waste are subject to regulation as a hazardous waste, unless the listed hazardous waste is listed solely because it exhibits a hazardous characteristic, and the resultant mixtures do not exhibit a characteristic. Mixtures of used oil and CESQG hazardous waste are subject to OAC Chapter 3745-279. Does the generator of a used oil containing greater than 1,000 Yes No □ N/A ppm total halogens manage the used oil as a hazardous waste unless the presumption is rebutted successfully? [3745-279-21(B)] NOTE: If used oil contains greater than 1000 ppm total halogens, it is presumed to be listed hazardous waste until the presumption is successfully rebutted. Does the generator store used oil in tanks; or containers; or a Yes No □ N/A unit(s) subject to regulation as a hazardous waste management unit? [3745-279-22(A)] 7. Are containers and aboveground tanks used to store used oil No N/A Yes in good condition with no visible leaks? [3745-279-22(B)] Are containers, above ground tanks, and fill pipes used for 8. N/A Yes No underground tanks clearly labeled or marked "Used Oil?" [3745-279-22(C)]

9.		ne generator, upon detection of a release of used oil,	Yes		No		N/Α	×		
	done	the following: [3745-279-22(D)]								
	a.	Stopped the release?	Yes		No		N/A	这		
	b.	Contained the release?	Yes		No		N/A	À		
ı	C.	Cleaned up and properly managed the used oil and other materials?	Yes		No	Ð,	N/A			
	d.	Repaired or replaced the containers or tanks prior to returning them to service, if necessary?	Yes		No		N/A	×		
							8			
ON-S		JRNING IN SPACE HEATER		Đ)						
10.		the generator burn used oil in used-oil fired space rs? [3745-279-23] If so:	4		a.	No				
	a.	Does the heater burn only used oil that owner/operator generates or used oil received from household do-it-yourself (DIY) used oil generators?	Yes		No		N/A	×		
	b.	Is the heater designed to have a maximum capacity of not more that 0.5 million BTU per hour?	Yes		No		N/A	×		
e 14	C.	Are the combustion gases from heater vented to the ambient air?	Yes		No		N/A	X		
NOTE: Ash accumulated in a space heater must be managed in accordance with 3745-279-10(E).										
GEN		OR TRANSPORTATION		. /	-	umourne.	-			
11.		the generator have the used oil hauled only by porters that have obtained a U.S. EPA ID#? [3745-279-	Yes	À	No	- D <sub>.</sub>	N/A			
12.	collec	generator self-transports used oil to an approved tion site or to an aggregation point owned by the ator: [3745-279-24]								
	a.	Does the generator transport used oil in a vehicle owned by the generator or an employee of the generator? [3745-279-24]	Yes		No	- 🗆 :	N/A	×		
	b.	Does the generator transport more than 55 gallons of used oil at any time? [3745-279-24]	Yes	П	No		N/A	X		
NOT	E: Use	ed oil generators may arrange for used oil to be transpon	ted by	a tra	nspoi	rter ı	vithou	ıt a U.S.		
EPA	ID # if t	the used oil is reclaimed under a contractual agreement (i.e.	e., tollir	ng ari	range	men	t)	MII.		
The second		ON CENTERS AND AGGREGATION POINTS		1.	D/SDANIS - S					
13.		DIY used oil collection center in compliance with the ator standards in 3745-279-20 to 3745-279-24? [3745-0]	Yes		No		N/A	X		
14.	Is the	non-DIY used oil collection center registered with Ohio [3745-279-31]	Yes		No	П	N/A	Ŕ		
15.	Is the used oil aggregation point in compliance with the generator standards in 3745-279-20 to 3745-279-24? [3745-279-32]									
	NOTE: Complete Used Oil Generator and any other applicable used oil handler checklist (e.g., marketer,									
burn	urner, etc.) for used oil collection centers and aggregation points.									

# Appendix C

# Documents received during the Inspection:

- Cleveland West Facility Diagram (marked)
- Training Record Table
- Warehouse Department Position Descriptions
- Waste Material Profile Sheet for Amine Sulfates
- Attendant documentation for Manifest 006745544FLE
- HAZWOPER Awareness training presentation (slides)

## **Inspection Date:**

March 19, 2015

### Facility Name and ID Number:

Aurora Medical Center - Grafton EPA ID: WIR000138859

### Inspector:

Brenda Whitney Compliance Section 2 RCRA Branch Land and Chemicals Division

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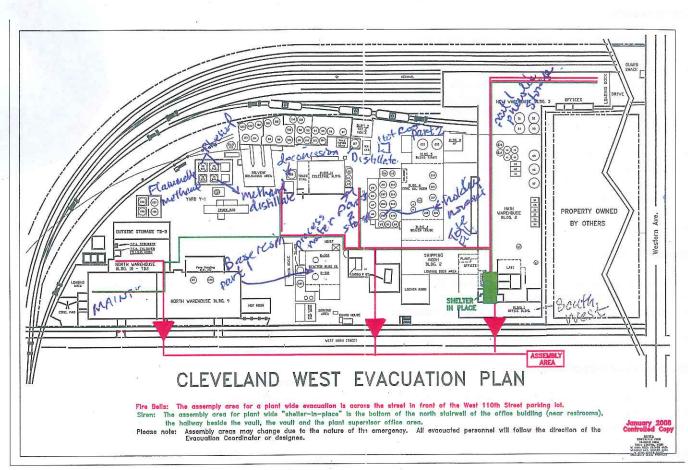
### ASK Chemicals CW Safety Rules

Visitors, Contractors and Truck Drivers

- All contractors/visitors are required to sign in at the guard house or front office upon entering the plant and must sign out when they leave the plant (this includes lunch).
- Vehicle access to the plant must be approved. Parking is on W. 110th St. across the street from the office entrance.
- Smoking permitted in designated areas only please ask for the closest location.
- No food is allowed in the plant. It is restricted to offices, picnic area, control rooms, break rooms and locker rooms.
- Do not operate any equipment or handle any chemicals without permission.
- Please observe all warning and caution signs.
- Remain alert to movement of Fork Trucks, Hoists & truck traffic both inside & outside the buildings of the facility.
- Do not enter roped off or barricaded areas without authorization from an ASK Chemicals supervisor.
- Everyone is required to comply with the facility Lockout/Tagout program.
- Do not consume, store, sell or work under the influence of alcohol or illegal drugs
- Cell phone use is restricted, see supervisory staff or plant contact for authorized areas.
- Firearms are strictly prohibited
- Hard hats & safety glasses are required in all plant areas.

## Cleveland West Facility Diagram





#### Visitors and Truck Drivers

 Safety glasses and hard hats are required in plant areas.

#### Contractors

- Must complete ASK Chemicals' Safety Training Program.
- Safety glasses, hard hats and steel toed shoes are required at all times when performing work in the plant.
- No open ended piping is permitted when connected to a process. All piping must be terminated by a cap, blind flange or valve before leaving at the end of the day.
- Hot work permits are required for any work that generates heat, sparks, or flame on the site.
- Confined space entry permits are required for entry into any space covered by OSHA's Confined Space Entry Standard.
- Must observe all plant safety rules.

#### Truck Drivers

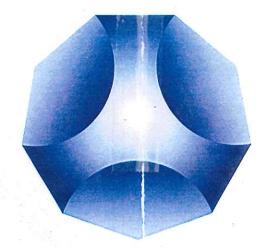
- Must remain a safe distance from operations.
- WII provide assistance only when requested.
- Drivers are not permitted in the dock area unless performing specific required tasks.
- No transactions are permitted through dock doors

### **Emergency Response**

For the safety and well being of all visitors, contractors and truck drivers, please be aware of the appropriate actions to take for the following emergencies

#### In case of...

- System Test (Short duration bell) Prior to test, announcement will be made and no action is necessary.
- Fire Alarm (Long duration bell) Proceed to nearest exit and go to assembly point.
- Process Alarm (Long duration siren) Proceed to area designated "Shelter In Place" and wait for further instructions.
- Severe Weather (Intermittent siren) Proceed to area designated "Shelter In Place" and wait for further instruction



Safety Manual

Safety Rules and Regulations (Cleveland West Facility)

ASK Chemicals L.P. Cleveland West Plant 2191 W. 110 St.

Phone: 1.216.961.4690 Fax: 1.216.961.2865

Website: www.ask-chemicals.com







Column1	Status	Completion Date	Score	Column10	Provider	Media	Supervisor	Supervisor Em
Daff , Richard A.(000198232)	Complete	1/8/15 10:44 AM	100	RCRA Part 1	PureSafety	Online	Helmick, Randy C.	000063424
Daff , Richard A.(000198232)	Complete	1/8/15 11:11 AM	90	RCRA Part 2	PureSafety	Online	Helmick, Randy C.	000063424
3lackwell , Frank(000343293)	Complete	7/14/14 4:44 PM	100	RCRA Part 2	PureSafety	Online	Daff, Richard A.	000198232
Blackwell , Frank(000343293)	Complete	7/14/14 4:50 PM	80	RCRA Part 1	PureSafety	Online	Daff, Richard A.	000198232
Mural , John(000259146)	Complete	5/22/15 8:42 AM	87	RCRA Part 1	PureSafety	Online	Daff, Richard A.	000198232
Mural , John(000259146)	Complete	5/26/15 7:47 AM	100	RCRA Part 2	PureSafety	Online	Daff, Richard A.	000198232
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# Warehouse Department Position Descriptions

Responsibilities and Authorities  Establish overall department objectives.	Plant Ops Manager	Supv.	Oper	Prod Sched	Prod Asst	Cont
Correct findings identified on interval 1111 of	X	Z	$\overline{z}$			
Correct findings identified on internal audits of the quality or environmental system.  Provide resources to assure conformance to internal light or environmental system.	Y	$\frac{Z}{X}$	$\frac{Z}{Z}$			<u></u>
Provide resources to assure conformance to internal and external requirements.  Approve department equipment upgrades.	X	<u> </u>				
Provide training for employees.	X	$\overline{Z}$				
Enforce general plant rules along with attendance program.	Y	$\frac{Z}{X}$				<del></del>
Enforce plant safety rules.	Y	$\frac{1}{X}$				
Reserve right to change personnel to unscheduled duties as necessary.	Y	X				
Hold periodic department meetings.	Y	$\frac{1}{X}$				
Assure that the plant operations manual procedures are being followed.	Y	$\frac{1}{X}$				—————
	Y	X				
nvestigate incidents of customer disactions at its action of the second	Y	$\frac{1}{Z}$			V	
nvestigate incidents of customer dissatisfaction as identified through the Customer Complaint System	X				X	Z
Update/create POM Procedures as identified during internal audits or by other personnel.	^	Z				
	Y	X	Z			
rain Warehouse Department personnel in new job function	Y	X				
titella dally production meetings	Y	X				
lake labels for packaging runs.	Y	X		X	X	X
aintain a clean work area		Y	$\overline{X}$			$\frac{\Lambda}{Z}$
omplete packaging *process orders properly.		Y	X			
aintain organization of the warehouse		Y	X			<del></del>
ickage material according to the applicable Plant Operation 16		Y	X			
Paradana process onless		Y	X			
stribute packaging *process orders as needed	Y	Z		X		
merate Packaging Priority List	Y	X		X		
orm supervisor of inventory problems	Y	X		X		$\overline{X}$
ordinate equipment repair with maintenance I		Y	X			
ordinate resolution of availability problems or inventory problems.		X		$\overline{Z}$		
by problems of inventory problems.	Y	X		$\frac{1}{X}$		

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# **Warehouse Department Position Descriptions**

Responsibilities and Authorities	Plant Ops Manager	Supv.	Oper	Prod Sched	Prod Asst	Cont Coord
Investigate incidents of non-conforming product and document the results of the	Y	Z	Z			
investigation.					<u> </u>	
Participate in continuous improvement efforts in the areas of safety, quality,	X	X	X	X	X	X
environmental, and productivity.					***	. 37
Properly manage universal wastes (radio batteries)	X	X	X	X	X	X
Properly label and handle hazardous waste as it is generated.	Z	<u>Y</u>	X	Z		Z
Properly label with the accumulation start date when the hazardous waste drum is full and	Z	Y	X	Z		Z
notify supervisor.	Z	Y	X	Z		Z
Weigh and prepare waste drum for shipment as needed.	Y					X
Monitor waste shipment preparation and loading if EHS&S manager is absent		<del> </del>				
Maintain waste Manifiests, profile sheets and weekly inspection sheets if EHS&S manager	Y					X
is absent		<u> </u>		<u> </u>	<u> </u>	<u></u>





A. GENERAL INFORMATION

# WASTE MATERIAL PROFILE SHEET

## Clean Harbors Profile No. CH974751

GENERATOR EPA ID #/		OHD076751320	GENER	ATOR NAME:	ASK C	nemicals LP				
GENERATOR CODE (As		s) AS0147	CITY	Cleveland	STATE/	PROVINCE	OH ZIP/POS	STAL CODE	441	02
ADDRESS 2191 West							16) 961-2723			
CUSTOMER CODE (Ass ADDRESS 2191 We	igned by Clean Harbors) est 110th Street	AS0147	CUSTO	MER NAME: Cleveland		hemicals LP PROVINCE	OH ZIP/POS	STAL CODE	441	02
B. WASTE DESCRIPTION:	l Amine Sulfates									
PROCESS GENERATING		ess waste			·					
IS THIS WASTE CONTAIN		ING CONTAINED WITHIN A	LARGER	SHIPPING CONTAINE	R? No					
C. PHYSICAL PROPERT	IES (at 25C or 77F)			non-miles de la faction de	Petrolina de la composición della composición de		***************************************		decement of the following	arramay samuji magg
PHYSICAL STATE SOLID WITHOUT FR	PEE MOUID	NUMBER OF PHASES/L					(If liquid present)		COLOR	The state of the s
POWDER		<b>y</b> 1 2 3	TOF	4.00	•	1 - 100 (	- /		clear	
MONOLITHIC SOLID		% BY VOLUME (Approx.)				ľ	(e.g. Motor Oil)		0.1001	
LIQUID/SOLID MIXT			ВО	TOM <b>0,00</b>	0	_	000 (e.g. Molasse:	5)		
% FREE LIQUID % SETTLED SOLID		ODOR				> 10,000				
% TOTAL SUSPENDE	D SOLID	NONE		BOILING POINT °F <= 95 (<=		MELTING PO	OINT °F (°C)	TOTAL C		2
SLUDGE GAS/AEROSOL		MILD		95 - 100 (	-	< 14	0 (<60)		<= 1%	
GAS/AERUSUL		STRONG		101 - 129	,	140-	200 (60-93)		1-9%	
		Describe:		>= 130 (>		> 20	0 (>93)	V	>= 10%	
FLASH POINT °F (°C)	рН	SPECIFIC GRAVITY		ASH		<u> </u>	I		<del></del>	
< 73 (<23)	<= 2	< 0.8 (e.g. Gasoline)		АЗЛ			BTU/LB (MJ/kg) < 2,000 (			
73 - 100 (23-38)	✓ 2,1-6,9	0.8-1.0 (e.g. Ethanol)		< 0.1		> 20		\4.0) )00 (4.6-11.6	21	
101 -140 (38-60)	7 (Neutral)	1.0 (e.g. Water)	İ	0.1 - 1.0	<b>V</b>	Unknown		,000 (4.0-11.6-2	•	
141 -200 (60-93)	7.1 - 12.4	1.0-1.2 (e.g. Antifreeze	≘)	1.1 - 5.0			> 10,000	•	5.4.7	
> 200 (>93)	>= 12.5	> 1.2 (e.g. Methylene	Chloride)	5.1 - 20.0			Actual;	( <b>/</b>		
D. COMPOSITION (List to pleas	the complete composition	n of the waste, include any in use do not use abbreviations.	ert compor	ients and/or debris. Ra	enges for i	individual comp	onents are accepta	able. If a trad	ie name i	is used,
CHEMICAL	11.7	, , , , , , , , , , , , , , , , , , , ,				······································	MIN ·		MAX	UOM
DIMETHYLETHANO	LAMINE						0.0000000	17.00		%
DIMETHYLISOPROF	YL AMMONIUM SUI	LFATE					30.0000000	50.00	<i>-</i>	·-ÿ
DIMETHYLISOPROF	YLAMINE		*			********	0.0000000	66.00		%
DIMETHYLOLPROP	IONIC ACID						0.0000000	14.00	00000	%
SULFURIC ACID					*****		5.0000000	10.00	00000	%
TEA							0.0000000	3.00	00000	%
DOES THIS WASTE CON >12" LONG, METAL REIN PIECES OF CONCRETE :	こういいこう ひつかはってん だい	GE METAL DEBRIS OR OTH DNG, METAL WIRE >12" LOI	HER LARG NG, METAI	E OBJECTS (EX., ME L VALVES, PIPE FITT	TAL PLAT	FE OR PIPING DNCRETE REIN	>1/4" THICK OR IFORCING BAR O	YES R		NO
if yes, describe, inclu	ŭ									
		POWDERED OR OTHER FI						YES	V	NO
DOES THIS WASTE CO FLUIDS, MICROBIOLOG POTENTIALLY INFECTI	SIUAL VVASTE, PATHUL	TACTED ANY OF THE FOLL OGICAL WASTE, HUMAN O	.OWNG; A IR ANIMAL	NIMAL WASTES, HU DERIVED SERUMS	MAN BLO OR PROT	OD, BLOOD P EINS OR ANY	RODUCTS, BODY OTHER	YES	V	NO
based on my knowle	age of the material. Sel	her infectious nor does it con ect the answer below that app	tain any org olies;	ganism known to be a	threat to h	numan health.	This certification is			
	r exposed to potentially i							YES		МО
		sterilization has been applied						YES		NO
		THE CLEAN HARBORS BA			MENTS.			YES		NO
		DS WASTE IS DOUBLE BAG	GED AND	WETTED.				YES		NO
SPECIFY THE SOURCE WASTE.	CODE ASSOCIATED W	ITH THE G09		SPECIFY THE F	ORM COI	DE ASSOCIATI	ED WITH THE WA	STE. W2:	19	new and the second





## Clean Harbors Profile No. CH974751

### E. CONSTITUENTS

Are these values based on testing or knowledge?

Knowledge

Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/i)	TCLP mg/l	TOTAL	NOM	NOT APPLIC	CABLE		
D004	ARSENIC	5,0				<b>~</b>			
D005	BARIUM	100.0				<b>V</b>			
D006	CADMIUM	1,0				☑ .			
D007	CHROMIUM	5,0				<u> </u>			
D008	LEAD	5.0				····· <b>☑</b> ···			
D009	MERCURY	0.2				·			
D010	SELENIUM	1.0				·····			
D011	SILVER	5.0				<b>V</b>			
				• • • • • • • • • • • • • •					
D018	VOLATILE COMPOUNDS BENZENE	0.5		OTHER CONSTITUENTS	3	MAX	UOM	NO	
		0.5		BROMINE				APPLIC	ADLE
D019	CARBON TETRACHLORIDE	0.5						<b>☑</b>	
D021	CHLOROBENZENE	100,0		CHLORINE				<u> </u>	
D022	CHLOROFORM	6.0		FLUORINE				Ø	
D028	1,2-DICHLOROETHANE	0,5		IODINE				☑	
D029	1,1-DICHLOROETHYLENE	0.7		SULFUR				<u>[v]</u>	
D035	METHYL ETHYL KETONE	200.0		POTASSIUM				V	
D039	TETRACHLOROETHYLENE	0.7		SODIUM				<b>V</b>	
D040	TRICHLOROETHYLENE	0,5		AMMONIA				Ø	
D043	VINYL CHLORIDE	0,2		CYANIDE AMENABLE				V	
	SEMI-VOLATILE COMPOUNDS			CYANIDE REACTIVE				V	
D023	o-CRESOL	200,0		CYANIDE TOTAL	·			·······	
D024	m-CRESOL	200.0		SULFIDE REACTIVE					
D025	p-CRESOL	200.0						<u> </u>	<u></u>
D026				HOCs		PCBs			
	CRESOL (TOTAL)	200,0		₩ NONE		NON V	E		
D027	1,4-DICHLOROBENZENE	7.5		< 1000 PPM		< 50			
D030	2,4-DINITROTOLUENE	0,13		>= 1000 PPM		>=50			
D032	HEXACHLOROBENZENE	0.13				IE PCBS A	RE PRESEN	IT IS THE	
D033	HEXACHLOROBUTADIENE	0.5				WASTE RE		BY TSCA 40	
D034	HEXACHLOROETHANE	3.0				CFR 761?			
D036	NITROBENZENE	2.0				YE	s 🙀	NO	
D037	PENTACHLOROPHENOL	100,0						•	
D038	PYRIDINE	5,0							
D041	2,4,5-TRICHLOROPHENOL	400.0				٠			
D042	2,4,6-TRICHLOROPHENOL	2.0							
	PESTICIDES AND HERBICIDE					•			
D012	ENDRIN	0,02							
D013	LINDANE	0.4	******						
D014	METHOXYCHLOR								
		10.0							
D015	TOXAPHENE	0.5							
D016	2,4-D	10.0							
D017	2,4,5-TP (SILVEX)	1.0							
D020	CHLORDANE	0.03							
D031	HEPTACHLOR (AND ITS EPOXIDE	) 0.008							
	T <mark>IONAL HAŻARDS</mark> HIS WASTE HAVE ANY UNDISCLOSE	D HAZARDS OR PRIO	R INCIDENTS	ASSOCIATED WITH IT, WHICH	I COULD AFI	FECT THE WAY	IT SHOULD	BE HANDLED	D?
YES	<del></del>								
СНОС	SE ALL THAT APPLY						-		
	A REGULATED SUBSTANCES	EXPLOSIVE		FUMING		0014	DEOL!! ****	D OADONIO	0510
	LYMERIZABLE					<del></del>		ED CARCINO	GENS
	40000-	RADIOACTIVE		REACTIVE MATER	IAL	✓ NONE	OF THE AE	OVE	

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# Clean Harbors Profile No. CH974751

REGULAT	ORY	STATE	JS						
YES	V	ИО	USEPA HAZARDOUS WASTE?						
YES	W	NO	DO ANY STATE WASTE CODES	APPLY?				,	
			Texas Waste Code outs2191						***************************************
YES	$\checkmark$	NO	DO ANY CANADIAN PROVINCIA	L WASTE CODES APPLY?					
YES	V	NO	IS THIS WASTE PROHIBITED FR	OM LAND DISPOSAL WITHO	UT FURTHER TREA	TMENT PE	ER 40 CFR PART 268?		
			LDR CATEGORY: Not su	bject to LDR					
YES	V	NO	IS THIS A UNIVERSAL WASTE?				***************************************		
YES	1	NO	IS THE GENERATOR OF THE WA	ASTE CLASSIFIED AS CONDI	TIONALLY EXEMPT	SMALL Q	JANTITY GENERATOR	(CESQG)?	
YES	_	МО	IS THIS MATERIAL GOING TO BE	E MANAGED AS A RCRA EXE	MPT COMMERCIAL	PRODUC	T, WHICH IS FUEL (40 C	CFR 261.2 (C)(2)(II))?	
YES	<b>V</b>	NO	DOES TREATMENT OF THIS WA						
YES	(7.7)	NO	IS THIS WASTE STREAM SUBJE			E PROHIB	ITION FOUND AT 40 CF	R 268.3(C)?	
YES	<b>V</b>	NO	DOES THIS WASTE CONTAIN VO						
YES	_	NO	DOES THE WASTE CONTAIN GF						
YES	<b>V</b>	NO	DOES THIS WASTE CONTAIN A		VHICH IN ITS PURE	FORM HAS	S A VAPOR PRESSURE	> 77 KPA (11.2 PSIA)	?
YES	, mil	NO	IS THIS CERCLA REGULATED (S						
YES	[ <b>V</b> ]	ИО	IS THE WASTE SUBJECT TO ON						
VER		NO	Hazardous Organic NESHAF				uction (subpart GGG)		
YES	VE0	NO	IF THIS IS A US EPA HAZARDOU						
	YES		NESHAP rules because i	ome from a facility with one of he original source of the waste	is from a chemical m	nanufacturii	ng, coke by-product reco	raste regulated under th very, or petroleum refin	e benzene ery process?
	YES	in the		of this waste stream a facility w			>10 Mg/year?		
			TAB quantity for your facifity? or this determination is: Knowledge		agram/year (1 Mg = 2,	,200 lbs)			
			e knowledge :	Of the Waste Of Test Data			Knowledge	Testing	—- <u>1</u>
G. DOT/I						· · · · · · · · · · · · · · · · · · ·			
DOT/TDG P	ROPE	R SHI	PPING NAME:						
UN1	760,	COR	ROSIVE LIQUIDS, N.O.S., (DIN	TETHYLISOPROPYLAMIN	E,SULFERIC ACI	D), 8, PG	III		
I. TRANSP STIMATED	ORTA SHIPI	TION MENT	REQUIREMENTS FREQUENCY ONE TIME WE	EKLY WONTHLY QU	ARTERLY YEARL	Y OTHE	<b>:</b> R	·	
	V	cc	NTAINERIZED	l BI	ILK LIQUID		l BULKS	SOLID	
			RS/SHIPMENT	GALLONS/SHIPMENT: 0		GAL.	SHIPMENT UOM:	TON	YARD
TORAGE CONTAINER			550	overestim ment.	mm -o max	OAL.		топ ENT: <u>0 Міл - 0 Мах</u>	
CU	BIC YA	RD B	OX PALLET				TOTTO TO THE TAX	EIVI. <u>0 WAY - 0 WAX</u>	
t-i	TE TAI	٩K	DRUM						
OII	HER:		DRUM SIZE:		4.5°				
I. SPECIAL	REQ	JEST							
COMMEN	TS OR	REQU	ESTS;						
GENERATOR	'S CER	TIFICA	TION		more was the beginning of the beginning		7-7-14-70-4-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
			to execute this document as an authorize sentative of the actual waste.If Clean Har the discrepancy.	d agent. I hereby certify that all infor bors discovers a discrepancy during	mation submitted in this a the approval process, G	and attached enerator gra	documents is correct to the total national decimal decimal that the suithor the suithor that the suithor tha	best of my knowledge.I also ity to amend the profile, as	certify that any Clean Harbors
AUT	HORL	ZED S	IGNATURE N	AME (PRINT)		TITLE		DATE	
			chemicals.com			, , , , , , , , , , , , , , , , , , , ,		DATE	
This waste	profile t	as bee	n submitted using Clean Harbors' electror	ic signature system.					<b></b>
*40 CFR Sec.	v Fede	ral Res	Durce Conservation and Recovery Actives	ulations found in 40, CER S cer	10/h) and -0	74-4-4	A second design		
	,,,,,,,		ource Conservation and Recovery Act reques to treat, store, and for dispose of last to treat, store, and for dispose of last be submitted for re-evaluation if there last to the submitted for re-evaluation if the submitted for re-evaluation is the submitted for	ne nazaroous waste described on ti	iis waste profile nave the	appropriate	permits and the capacity to n	nanage these wastes,	

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Clean Harbors Env. Services, Inc. 2900 Rockefeller Avenue Cleveland, Ohio 44115

216-429-2401 216-429-2402 www.cleanharbors.com

February 28, 2014

Mr. Steve Henson ASK Chemicals 2191 West 110<sup>th</sup> Street Cleveland, OH 44102

Manifest Section Clean Harbors Canada, Inc. 4090 Telfer Road RR#1 Corunna, ON N0N 1G0

**RE: Manifest Discrepancy Correction** 

Manifest 006745544FLE, ASK Chmeicals

Dear Sir or Madam:

Please find enclosed, a corrected copy of manifest document 006745544FLE. Section 1, Generator ID Number should read "OHD076751320" instead of "OHCESQG" in said section. Please update your records to reflect the correct information.

Should you have any questions regarding this letter, please contact me at (216) 857-2227.

Sincerely,

Susan Sevy

Environmental Compliance Manager, Clean Harbors

Enclosure

CC: facility file



TIMESTACK MAY A COMME	1. Generator ID Number		2. Page 1 of   3. Em	ergency Respons	Phone		Tracking N		LOMB No	
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### MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation:

Ce document de moivement/manifeste est conforme aix: législations in défense et provinciale sur l'environnement et le transport.

Movement Document / Manifest Reference No. N° de préference du document de mouvement/manifesta AQ06029-3 SC FPW 1/3/2021 DETB10206

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# Land Disposal Restriction Notification Form

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MANIFEST INF	ORMATION					
Generato	or: ASK Chemi	cals LP		,	Manifest Tracking	Info.
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Pursuant to 40 ( Part 268,	CFR 268.7(a), I h	ereby notify that t	his shipment contains	waste res	tricted under 40 CFR	1.
Waste analysis Signature : Title :	data, where avai	lable, is attached	Print Name	e I	DAUID W.	
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### **HAZWOPER AWARENESS**

ASK Chemicals, Cleveland West

October 30, 2014



### **Regulatory Agencies**

Environmental laws are implemented through regulations.

Major federal regulatory agencies:

- · Environmental Protection Agency (EPA)
- Occupational Safety and Health Administration (OSHA)
- Department of Transportation (DOT)

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### Complying with Regulations

ASK Chemicals compliance with environmental regulations is monitored and implemented through the following:

- · Government inspections
- · Reporting and permitting requirements
- · Enforcement of violations
- · Citizen suits
- · Past events
- Audits

Penalties

Facilities and individuals can be fined and/or sentenced to jail for violations of these laws and regulations.





Major Regulations on Hazardous Chemicals

OSHA 1910.1200 - Hazard Communication Standard

OSHA 1910.120 – Hazardous Waste Operations and

Operations Covered by OSHA 1910.120 "Hazwoper"

· Hazardous waste cleanup operations

Emergency Response (Hazwoper)

- RCRA treatment, storage and disposal (TSD) operations
- · Emergency response operations

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#### OSHA 1910.120 Requirements

Emergency response plan

Emergency response procedures

Training

### Other requirements:

- A written safety and health program for the facility
- Hazardous Waste Site evaluation
- · Site control measures
- Engineering controls, work practices, and personal protective equipment program as appropriate
- Medical surveillance program, as needed
- Monitoring, as needed

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### Medical Surveillance



Periodic physical exams

Could include those persons who are or may be exposed to hazardous materials above permissible limits, use a respirator, have become ill due to exposure, or who are on a Hazmat team.

### **Training Requirements**



Persons who work at hazardous waste sites or who are expected to respond to hazardous substance emergencies must receive initial and annual refresher training.



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### **Emergency Response Roles**

Emergency response roles are:

First Responder Awareness Level (your role)

First Responder Operations Level

Hazardous Materials Technician/ Specialist

On Scene Incident Commander





### Material Safety Data Sheet (MSDS)

GHS - Now called SDS

Provide information on ...

Basic chemical properties

How the chemical impacts emergency response

Implications of exposure to the chemical



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### SDS - Sixteen Section Format

Section 1 - Chemical Product and Company Identification

Section 2 - Composition/Information on Ingredients

Section 3 - Hazards Identification

Section 4 - First Aid Measures

Section 5 - Fire Fighting Measures

Section 6 - Accidental Release Measures

Section 7 - Handling and Storage

Section 8 - Exposure Controls / Personal Protection

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### SDS - Sixteen Section Format, cont.

Section 9 - Physical and Chemical Properties

Section 10 - Stability and Reactivity

Section 11 - Toxicological Information

Section 12 - Ecological Information

Section 13 - Disposal Considerations Section 14 - Transportation Information

Section 15 - Regulatory Information

Section 16 - Miscellaneous Information

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#### Hazardous Materials Definition

For the purposes of this training, a hazardous material is a substance that is capable of producing adverse effects,



Hazardous materials come in different classes, for example:

- Flammable
- Explosive
- -- Corrosive
- Toxic
- etc.

# **Material Physical States**

Solid

Gas

Liquid

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#### Typical Properties of Solids

Solids tend to hold their form without support. In general

- · Flammable solids Ignite when the ignition temperature is
- · Toxic solids have great difficulty gaining access to the body.
- · Solids in the environment can be easily collected and
- · Solids are less hazardous than gases or liquids, unless powdered.

# Typical Properties of Gases

All gases expand uniformly to occupy whatever space is available, whether large or small. In general

- Gases are more hazardous than liquids or
- Flammable gases ignite quite easily.
- Toxic gases can gain access to the body by inhalation,
- Gases in the environment are more difficult to contain than solids or liquids, but they are more easily dispersed.



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### ASKENEMICALS A Typical Properties of Liquids

Liquids flow freely and take the shape of their container. In general

- · Liquids are more hazardous than solids.
- · Flammable liquids ignite easily only when vaporized
- · Toxic liquids can be absorbed by the skin if splashe
- or spilled and can be inhaled only when vaporized. · Liquids can sink, float, or dissolve in water.
- Liquids can be very hot (boiling water, 212°F) or very cold (boiling liquid nitrogen, -320°F), and thus can cause burning or freezing.
- Liquids in the environment can be collected, contained, or absorbed if insoluble and can be dispersed if soluble.

#### Density of Vapor or Gas



The density of a gas in relation to the density of air is called vapor density.

- If < 1, it is lighter than air</li>
- · If > 1, it is heavier than air

The density of a vapor or gas indicates its tendency to rise in air and dissipate or sink in air and collect in low lying areas.

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# **Specific Gravity**

Weight of Liquid

Specific Gravity = Weight of an Equal Volume of Water

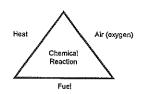
If < 1, floats on water

If > 1, sinks in water

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### Fire Tetrahedron

A fire can result when all these are present (in the right mixture):



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# **Explosive Limits**

Flammable gases and vapors of flammable liquids will ignite in air when they are exposed to an ignition source.

Explosive Limits (gas, vapor)

- Lower Explosive Limit (LEL) Minimum concentration below which a substance will not burn.
- Upper Explosive Limit (UEL) Maximum concentration above which a substance will not burn.





Flash Point - The minimum temperature that a liquid must reach to produce an ignitable concentration of vapor.

- Liquids having a flash point below 100°F are considered by the U.S. DOT to be flammable liquids.
- Liquids having a flash point at or above 100°F and below 200°F are considered by the DOT to be combustible



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# Most Dangerous Substances

The most dangerous flammable substances are those that:

- Have a low Lower Explosive Limit (LEL) and a wide flammable range
- Easily ignited (pyrophorics)



#### Flammable Solids

A Flammable Solid is one that can be ignited by friction or by spontaneous chemical reaction with moisture or air.

Ignition Temperature - Temperature that a solid begins to burn





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#### Corrosives



Corrosive - Material that can cause deterioration or alteration of metal surfaces or skin tissue at the point of contact.



#### Reactive

materials.



A reactive material is unstable or reacts to produce potentially harmful conditions (e.g., organic peroxide and oxidizers).



Some material react chemically or physically with water to produce dangerous conditions.

 The most serious hazard caused by water occurs when water participates in a chemical reaction (hydrolysis) - Can produce corrosive, toxic, and flammable



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# Toxicology

**Toxicity** 

Hazard

Risk

Safety

A very toxic chemical presents little hazard when used under safe conditions.



# How Chemicals Enter the Body

Routes





Ingestion



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### **Target Organs**

Liver

Kidney

Reproductive System

Lungs

Central Nervous System

Immune System

Skin

#### Exposure



#### Duration of exposure

- Acute (immediate): Burning, itching, upset stomach, dizziness, tears, rashes
- · Chronic (long-term): Cancer, lung disease, liver, kidпеу

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#### Dose/Response Relationship

Dose is the amount of chemical to which one is exposed Toxicity is related to dose

In all cases, the amount of exposure to a chemical is directly related to the effect on the body (dose/response) and there are levels of exposure that are safe.

Threshold Level - The highest amount of chemical to which an animal or human can be exposed with no resulting adverse effects.

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#### Threshold Limit Values (TLV's)

Time-Weighted Average (TLV-TWA) - The timeweighted average concentration for a normal 8-hour workday or 40-hour workweek, to which nearly all workers may be repeatedly exposed.

Short Term Exposure Limit (TLV-STEL) - The max concentration to which workers can be exposed for a period of up to 15 mins w/o developing adverse effects

Ceiling (TLV-C) - concentration that should not be exceeded even instantaneously.

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#### PEL

#### **Exposure limits**

- · PEL Permissible Exposure Level
- Set by OSHA
- ~ Regulatory level. Citations can be issued
- Levels of chemical in air above which an employee may not
- Solvents are usually measured in parts per million (ppm)

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# **Factors Affecting Toxicity**

Age

Sex

Route of exposure

Combinations of chemicals

- Exposure to two chemicals could cause a toxic effect equal to both combined, or
- Sometimes two different chemicals can cause a toxic effect that is even greater than the sum of the two

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# **Emergency Recognition: Definition**

An emergency is a sudden, unexpected occurrence demanding immediate action.

### Emergency

- Incident generates a vapor, gas, fume, mist, or dust which causes an obvious overexposure condition, such as individuals experiencing acute health affects (coughing, burning eyes, etc.)
- Incident has a high probability of resulting in fire or explosion due to proximity of an ignition source.
- Incident is likely to cause a violent reaction due to incompatibility with surrounding materials.
- The incident creates a plume, cloud, or smoke which will likely cause a concern in the community.
- Incident involves a release of material which cannot be, or may not be contained on the property. (i.e. sewers, surface waterways...)
- The incident occurs when personal protective equipment, tools, equipment, or trained personnel are not present in sufficient quantity.



# Non-Emergency

Specific criteria that can make a release a nonemergency are:

- None of the Emergency criteria exist
- 2. Release is absorbed, neutralized, or otherwise controlled by employees in the immediate work area or by maintenance personnel. No potential safety or health hazard.

If there is any doubt the release should be considered an emergency.



#### **Recognizing Hazardous Materials**

Hazardous chemicals can be recognized by the information on their containers such as:

GHS Labels and Pictograms DOT symbols NFPA symbols ANSI, HMIS and other labels

Other sources of information

SDS

Emergency Response Guidebook

# **DOT Symbols**

**DOT - Symbols and Colors used** to communicate hazard during transportation

- Labels used on packages
- · Placards used on transport vehicles, bulk shipping containers
- Labels and placards differ in size, but generally look similar







# DOT Label vs. Placard



Label (for Packages) 3.9 x 3.9 inches (100mm)

Placard (for Bulk >119 Gal. and Cargo Containers) 10.8 x 10.8 inches (273mm)





Note class number at bottom of both the label and the placard,

# **DOT Hazard Classes**



Class 1 - Explosives



Class 2 - Gases

- · 2.1 Flammable Gas
- · 2.2 Non-Flammable, Non-Toxic
- 2.3 Toxic





# **DOT Hazard Classes**





Class 3 - Flammable Liquids (and Combustible Liquids)



# Class 4

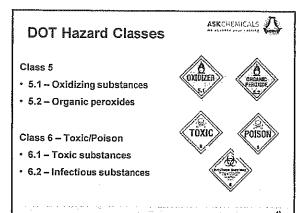
- · 4.1 Flammable Solids
- · 4.2 Spontaneously Combustible Materials
- · 4.3 Dangerous When Wet/Water-Reactive Materials

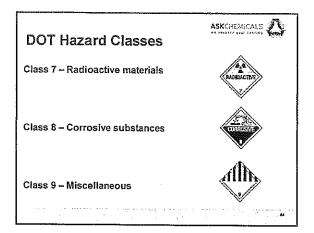


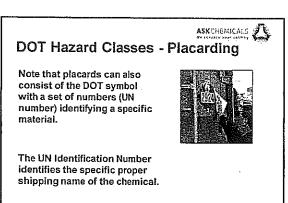


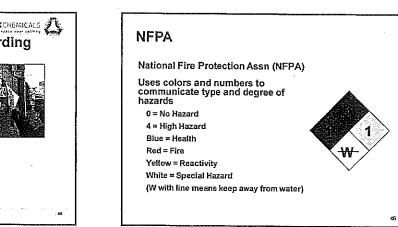
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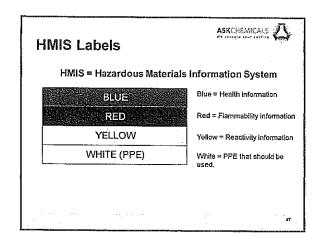


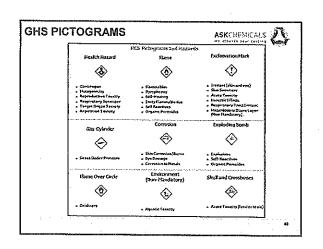




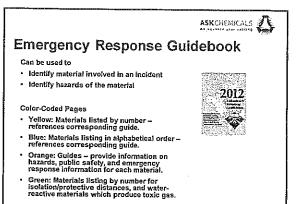


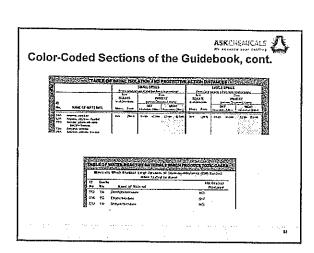


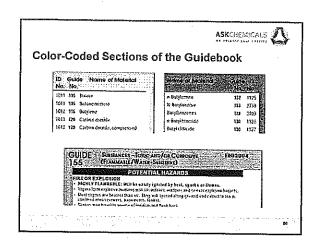




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# Awareness Role



Recognize an emergency

Initiate the emergency response plan – contact the communications center of the facility

Secure the area

Ensure that 1-855-ASK4YOU is called

#### Do NOT

- · Rush into the area
- · Get near fumes, vapors, smoke, and spills
- · Approach area from downwind

